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## DEPARTMENT OF PUBLIC HEALTH AND PREVENTIVE MEDICINE

**From**

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**To**

The Commissioner,  
Ranipet Municipality,  
Ranipet,  
Ranipet District.

**R.No. 2926/C/2025 (TNR- 1018 to TNR- 1025 )**

**Dated : 30.07.2025.**

Sub : Report on examination of Water samples from the  
Ranipet Municipality, Ranipet District - Collected on  
01.07.2025 <sup>to</sup> 03.07.2025.

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Ranipet Municipality derives its drinking water supply from the following sources :

### **Water Sources :**

1. 2 Infiltration well ( No 1 & 2) laid in the river bed of Palar Collection sump no. 1 at Navloc Garden.
2. 2 Infiltration well (No 3 & 4) laid in the river bed of Palar Collection sump no.2 at Navloc Garden.
3. Cauvery composite water supply scheme (CCWSS) from Hokkenakal at Santhaipettai Market Campus.

### **Water Supply :**

1. The water from Infiltration well (4 Nos.) laid in the river bed of Palar at Navloc Garden is collected in two collection GLRs at SMH (60,000 litres capacity) and Santhaipettai (10,00,000 litres capacity) and then Pumped to one GLR at Karai Housing board (1.0 lakh capacity and Mixture <sup>of</sup> water is lifted to the following OHTS:

| S.No. | Location of OHTs      | Capacity (in litres) |
|-------|-----------------------|----------------------|
| 1     | SMH                   | 2,75,000             |
| 2     | Weekly Santhanipettai | 14,00,000            |
| 3     | IVPM                  | 10,00,000            |
| 4     | Navalpur              | 4,00,000             |
| 5     | Lamba colony          | 5,00,000             |
| 6     | Gandhi Nagar          | 2,00,000             |

# RESULTS OF EXAMINATION OF SAMPLES OF WATER

From: The Commissioner Ranipet Municipality Ranipet District.

Collected by: Thiru.U.Panneer Selvam, H.I. GR.1

TNR - 1018

TNR - 1019

TNR - 1020

| Date of Collection : 01.07.2025<br>Date of Receipt : 02.07.2025<br>Source as per label |                                                                          | Mixture of Infiltration wells water (River bed of Palar) Collection sump no. 1 at Navloc Garden | Mixture of Infiltration wells water (River bed of Palar) Collection sump no. 2 at Navloc Garden | Mixture of 2 Collection sump water from 1 <sup>st</sup> tap after GLR at Karai Housing Board. | Tap at Nehru Nagar 2 <sup>nd</sup> Street | Tap at Colony |
|----------------------------------------------------------------------------------------|--------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-------------------------------------------|---------------|
| Bacteriological Examination                                                            | Total colonies per ml. on agar at 37°C                                   | 200                                                                                             | 100                                                                                             | 0                                                                                             |                                           |               |
|                                                                                        | MPN of Coliform bacteria per 100 ml.                                     | 1100                                                                                            | 150                                                                                             | 0                                                                                             | 0                                         | 0             |
|                                                                                        | Rapid Test for Ecoli I                                                   | Negative                                                                                        | Negative                                                                                        |                                                                                               |                                           |               |
|                                                                                        | Results of vibrio test                                                   |                                                                                                 |                                                                                                 |                                                                                               |                                           |               |
| Physical Examination                                                                   | Colour                                                                   | Colourless                                                                                      | Colourless                                                                                      | Colourless                                                                                    |                                           |               |
|                                                                                        | Turbidity (Units)                                                        | 5                                                                                               | 5                                                                                               | 5                                                                                             |                                           |               |
|                                                                                        | Smell                                                                    | None                                                                                            | None                                                                                            | Slightly Chlorinous (1ppm)                                                                    |                                           |               |
| Chemical Examination (in mg/l).                                                        | Total Solids                                                             | 1480                                                                                            | 1670                                                                                            | 1510                                                                                          |                                           |               |
|                                                                                        | Carbonate hardness as CaCO <sub>3</sub>                                  | 356                                                                                             | 368                                                                                             | 360                                                                                           |                                           |               |
|                                                                                        | Non- Carbonate hardness as CaCO <sub>3</sub>                             | 184                                                                                             | 212                                                                                             | 200                                                                                           |                                           |               |
|                                                                                        | Total hardness as CaCO <sub>3</sub>                                      | 540                                                                                             | 580                                                                                             | 560                                                                                           |                                           |               |
|                                                                                        | Chloride as Chlorine                                                     | 400                                                                                             | 420                                                                                             | 400                                                                                           |                                           |               |
|                                                                                        | Ammoniacal Nitrogen                                                      |                                                                                                 |                                                                                                 |                                                                                               |                                           |               |
|                                                                                        | Albuminoid Nitrogen                                                      |                                                                                                 |                                                                                                 |                                                                                               |                                           |               |
|                                                                                        | Oxygen absorbed (Tidy's test)                                            | 0.80                                                                                            | 0.96                                                                                            | 0.0                                                                                           |                                           |               |
|                                                                                        | Nitrate-Nitrogen                                                         | 0.5                                                                                             | 0.5                                                                                             | 0.5                                                                                           |                                           |               |
|                                                                                        | Alkalinity }<br>as CaCO <sub>3</sub>                                     | 0                                                                                               | 0                                                                                               | 0                                                                                             |                                           |               |
|                                                                                        |                                                                          | 356                                                                                             | 368                                                                                             | 360                                                                                           |                                           |               |
|                                                                                        | Fluoride as Fluorine                                                     | 0.1                                                                                             | 0.1                                                                                             | 0.1                                                                                           |                                           |               |
|                                                                                        | pH.                                                                      | 7.6                                                                                             | 7.7                                                                                             | 7.9                                                                                           |                                           |               |
|                                                                                        | Iron as Fe Total                                                         | 0.05                                                                                            | 0.05                                                                                            | 0.05                                                                                          |                                           |               |
|                                                                                        | Ferrous                                                                  |                                                                                                 |                                                                                                 |                                                                                               |                                           |               |
|                                                                                        | Manganese as Mn.                                                         |                                                                                                 |                                                                                                 |                                                                                               |                                           |               |
|                                                                                        | Qualitative- Nitrite Nitrogen                                            | Trace                                                                                           | Trace                                                                                           | Nil                                                                                           |                                           |               |
|                                                                                        | Sulphate                                                                 | Present                                                                                         | Present                                                                                         | Present                                                                                       |                                           |               |
|                                                                                        | Phosphate                                                                | Trace                                                                                           | Trace                                                                                           | Trace                                                                                         |                                           |               |
|                                                                                        | Toxic Substances                                                         |                                                                                                 |                                                                                                 |                                                                                               |                                           |               |
|                                                                                        | Electrical Conductivity (Reciprocal megohms per Cm <sup>3</sup> at 25°C) | 2120                                                                                            | 2380                                                                                            | 2150                                                                                          |                                           |               |
| Microscopical Examination                                                              |                                                                          | Monas & Amorphous matter                                                                        | Monas & Amorphous matter                                                                        | Amorphous matter                                                                              |                                           |               |

The Available Chlorine in given Hypo chlorite Solution is 3.7% by Volume.

2. The water from Cauvery composite water supply scheme is collected in a collection GLR (8,00,000 litres capacity) at Santhaipettai and then pumped to Jeyarampettai OHT ( 7,30,000 litres capacity).

From the above OHTs, the drinking water is distributed to the public through public fountains and house service connections after chlorination.

It was stated that the water supply is being maintained alternative days .

24 samples of water for bacteriological analysis and 08 samples of water for chemical and biological analysis were collected on 01.07.2025 ~~and~~ 03.07.2025 for periodical water quality monitoring for drinking purpose.

The results of analysis are furnished herewith :

**1. Mixture of Infiltration wells water ( River bed of Palar ) Collection sump no. 1 at Navloc Garden - (TNR - No.1018)**

**2. Mixture of Infiltration wells water ( River bed of Palar ) Collection sump no. 2 at Navloc Garden - (TNR - No.1019)**

The above two samples of water are colourless and clear in physical appearance .

Chemical analysis reveals that, they are very hard and moderately mineralized. However, they are of tolerable chemical quality for drinking. Arrangements may be made to distribute CWSS water to the respected area for drinking purpose.

But, they are of very poor bacteriological quality as evidenced by the presence of coliform group of organisms and also show few microscopical organisms.

**3. CWSS water from sump at Paripet weekly santhai - (TNR No. 1021).**

The sample of water is colourless and clear in physical appearance.

Judged by the results of analysis it is satisfactory of chemical quality for drinking purposes on this occasion.

But, it is of very poor bacteriological quality as evidenced by the presence of coliform group of organisms and also show few microscopical organisms.

**4. Mixture of 2 Collection sump water from 1<sup>st</sup> tap after GLR at Karai Housing Board. - (TNR No. 1020 ).**

The sample of water is colourless and clear in physical appearance with slightly chlorinous odour and recorded R.C. 1.00 mg/l.

# RESULTS OF EXAMINATION OF SAMPLES OF WATER

From: The Commissioner Ranipet Municipality Ranipet District.

Collected by: Thiru.U.Panneer Selvam, H.I. GR.1

TNR - 1021 TNR - 1022

TNR - 1023

| Date of Collection : 01.07.2025 & 02.07.2025<br>Date of Receipt : 02.07.2025<br>Source as per label |                                                                          | CWSS water from sump at Paripet weekly santhai | Water from 1 <sup>st</sup> tap after Jayarampetta i | Tap at by pass Road Jayarampet | Mixture of CWSS and Palar water from 1 <sup>st</sup> tap after OHT at Bajana i kovil street | Tap at Ambedkar Street |
|-----------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|------------------------------------------------|-----------------------------------------------------|--------------------------------|---------------------------------------------------------------------------------------------|------------------------|
| Bacteriological Examination                                                                         | Total colonies per ml. on agar at 37°C                                   | 200                                            |                                                     |                                |                                                                                             |                        |
|                                                                                                     | MPN of Coliform bacteria per 100 ml.                                     | 1100                                           | 0                                                   | 0                              | 0                                                                                           | 0                      |
|                                                                                                     | Rapid Test for Ecoli I                                                   | positive                                       |                                                     |                                |                                                                                             |                        |
|                                                                                                     | Results of vibrio test                                                   |                                                |                                                     |                                |                                                                                             |                        |
| Physical Examination                                                                                | Colour                                                                   | Colourless                                     | Colourless                                          |                                | Colourless                                                                                  |                        |
|                                                                                                     | Turbidity (Units)                                                        | 5                                              | 5                                                   |                                | 5                                                                                           |                        |
|                                                                                                     | Smell                                                                    | None                                           | Chlorinous (2ppm)                                   |                                | Slightly Chlorinous (1ppm)                                                                  |                        |
| Chemical Examination (in mg/l):                                                                     | Total Solids                                                             | 360                                            | 360                                                 |                                | 1190                                                                                        |                        |
|                                                                                                     | Carbonate hardness as CaCO <sub>3</sub>                                  | 128                                            |                                                     |                                | 300                                                                                         |                        |
|                                                                                                     | Non- Carbonate hardness as CaCO <sub>3</sub>                             | 0                                              |                                                     |                                | 4                                                                                           |                        |
|                                                                                                     | Total hardness as CaCO <sub>3</sub>                                      | 128                                            |                                                     |                                | 304                                                                                         |                        |
|                                                                                                     | Chloride as Chlorine                                                     | 34                                             | 36                                                  |                                | 360                                                                                         |                        |
|                                                                                                     | Ammoniacal Nitrogen                                                      |                                                |                                                     |                                |                                                                                             |                        |
|                                                                                                     | Albuminoid Nitrogen                                                      |                                                |                                                     |                                |                                                                                             |                        |
|                                                                                                     | Oxygen absorbed (Tidy's test)                                            | 0.88                                           | 0.0                                                 |                                | 0.0                                                                                         |                        |
|                                                                                                     | Nitrate-Nitrogen                                                         | 0.5                                            |                                                     |                                | 0.5                                                                                         |                        |
|                                                                                                     | Alkalinity } Phenolphthalein<br>as CaCO <sub>3</sub> } Methyl Orange     | 0                                              |                                                     |                                | 0                                                                                           |                        |
|                                                                                                     |                                                                          | 148                                            |                                                     |                                | 300                                                                                         |                        |
|                                                                                                     | Fluoride as Fluorine                                                     | 0.1                                            |                                                     |                                | 0.2                                                                                         |                        |
|                                                                                                     | pH.                                                                      | 8.1                                            | 8.1                                                 |                                | 7.8                                                                                         |                        |
|                                                                                                     | Iron as Fe Total                                                         | 0.05                                           | 0.05                                                |                                | 0.05                                                                                        |                        |
|                                                                                                     | Ferrous                                                                  |                                                |                                                     |                                |                                                                                             |                        |
|                                                                                                     | Manganese as Mn.                                                         |                                                |                                                     |                                |                                                                                             |                        |
|                                                                                                     | Qualitative- Nitrite Nitrogen                                            | Trace                                          | Nil                                                 |                                | Nil                                                                                         |                        |
|                                                                                                     | Sulphate                                                                 | Trace                                          |                                                     |                                | Trace                                                                                       |                        |
|                                                                                                     | Phosphate                                                                | Trace                                          |                                                     |                                | Trace                                                                                       |                        |
|                                                                                                     | Toxic Substances                                                         |                                                |                                                     |                                |                                                                                             |                        |
|                                                                                                     | Electrical Conductivity (Reciprocal megohms per Cm <sup>3</sup> at 25°C) | 510                                            | 520                                                 |                                | 1700                                                                                        |                        |
| Microscopical Examination                                                                           |                                                                          | Monas & Amorphous matter                       | Amorphous matter                                    |                                | Amorphous matter                                                                            |                        |

Chemical analysis reveals that, it is very hard and moderately mineralized. However, it is of tolerable chemical quality for drinking. Arrangements may be made to distribute CWSS water to the respective area for drinking purpose.

It is satisfactory of bacteriological and biological quality for drinking purposes on this occasion.

**5. Water from 1<sup>st</sup> tap after Jayarampettai OHT – (TNR No. 1022 ).**

The sample of water is colourless and clear in physical appearance with chlorinous odour and recorded R.C. 2.0 mg/l.

Judged by the results of analysis it is satisfactory of chemical, bacteriological and biological quality for drinking purposes on this occasion.

**6. Mixture of CWSS and Palar water from 1<sup>st</sup> tap after OHT at Bajanai kovil street. – (TNR No. 1023 ).**

The sample of water is colourless and clear in physical appearance with slightly chlorinous odour and recorded R.C. 1.00 mg/l.

Chemical analysis reveals that, it is hard and moderately mineralized. However, it is acceptable of chemical quality for drinking.

It is satisfactory of bacteriological and biological quality for drinking purposes on this occasion.

**7. Mixture of CWSS and Palar water from 1<sup>st</sup> tap after OHT at Markara mettu street. – (TNR No. 1024 ).**

**8. Mixture of CWSS and Palar water from 1<sup>st</sup> tap after OHT at SMH. – (TNR No. 1025 ).**

The above two samples of water are colourless and clear in physical appearance with chlorinous odour and recorded R.C. between 1.0 mg/l and 2.00 mg/l respectively.

Chemical analysis reveals that, they are hard and moderately mineralized. However, it is acceptable of chemical quality for drinking.

They are of satisfactory of bacteriological and biological quality for drinking purposes on this occasion.

The samples of water collected from all the distribution tap points are of satisfactory bacteriological quality on this occasion.

From: The Commissioner Ranipet Municipality Ranipet District.  
Collected by: Thiru.U.Panneer Selvam, H.I. GR.1

From: The Commissioner Ranipet Municipality Ranipet District.  
Collected by: Thiru.U.Panneer Selvam, H.I. GR.1

**TNR - 1024**

|                                                                                          |                                              | TNR – 1024                                   |                                                                                                               |                                              |                                  |                            |
|------------------------------------------------------------------------------------------|----------------------------------------------|----------------------------------------------|---------------------------------------------------------------------------------------------------------------|----------------------------------------------|----------------------------------|----------------------------|
| Date of Collection : : 02.07.2025<br>Date of Receipt : 03.07.2025<br>Source as per label |                                              | Tap at<br>Ambedkar<br>2 <sup>nd</sup> Street | Mixture of<br>CWSS and<br>Palar water<br>from 1 <sup>st</sup> tap<br>after OHT at<br>Markara mettu<br>street. | Tap at<br>Manikara 2 <sup>nd</sup><br>Street | Tap at<br>Manikara<br>3rd Street | Tap at<br>Sangam<br>Part 1 |
| Bacteriological<br>Examination                                                           | Total colonies per ml. on agar at 37°C       |                                              |                                                                                                               |                                              |                                  |                            |
|                                                                                          | MPN of Coliform bacteria per 100 ml.         |                                              | 0                                                                                                             | 0                                            | 0                                | 0                          |
|                                                                                          | Rapid Test for Ecoli I                       |                                              |                                                                                                               |                                              |                                  |                            |
|                                                                                          | Results of vibrio test                       |                                              |                                                                                                               |                                              |                                  |                            |
| Physical<br>Examination                                                                  | Colour                                       |                                              | Colourless                                                                                                    |                                              |                                  |                            |
|                                                                                          | Turbidity (Units)                            |                                              | 5                                                                                                             |                                              |                                  |                            |
|                                                                                          | Smell                                        |                                              | Slightly<br>Chlorinous<br>(1ppm)                                                                              |                                              |                                  |                            |
| Chemical Examination (in mg/l).                                                          | Total Solids                                 |                                              | 860                                                                                                           |                                              |                                  |                            |
|                                                                                          | Carbonate hardness as CaCO <sub>3</sub>      |                                              |                                                                                                               |                                              |                                  |                            |
|                                                                                          | Non- Carbonate hardness as CaCO <sub>3</sub> |                                              |                                                                                                               |                                              |                                  |                            |
|                                                                                          | Total hardness as CaCO <sub>3</sub>          |                                              |                                                                                                               |                                              |                                  |                            |
|                                                                                          | Chloride as Chlorine                         |                                              | 196                                                                                                           |                                              |                                  |                            |
|                                                                                          | Ammoniacal Nitrogen                          |                                              |                                                                                                               |                                              |                                  |                            |
|                                                                                          | Albuminoid Nitrogen                          |                                              |                                                                                                               |                                              |                                  |                            |
|                                                                                          | Oxygen absorbed (Tidy's test)                |                                              | 0                                                                                                             |                                              |                                  |                            |
|                                                                                          | Nitrate-Nitrogen                             |                                              |                                                                                                               |                                              |                                  |                            |
|                                                                                          | Alkalinity }<br>as CaCO <sub>3</sub> }       | Phenolphthalein<br>Methyl Orange             |                                                                                                               |                                              |                                  |                            |
|                                                                                          |                                              |                                              |                                                                                                               |                                              |                                  |                            |
|                                                                                          | Fluoride as Fluorine                         |                                              |                                                                                                               |                                              |                                  |                            |
|                                                                                          | pH.                                          |                                              | 7.9                                                                                                           |                                              |                                  |                            |
|                                                                                          | Iron as Fe Total                             |                                              | 0.05                                                                                                          |                                              |                                  |                            |
|                                                                                          | Ferrous                                      |                                              |                                                                                                               |                                              |                                  |                            |
|                                                                                          | Manganese as Mn.                             |                                              |                                                                                                               |                                              |                                  |                            |
|                                                                                          | Qualitative-<br>Nitrite Nitrogen             |                                              | Nil                                                                                                           |                                              |                                  |                            |
|                                                                                          | Sulphate                                     |                                              |                                                                                                               |                                              |                                  |                            |
|                                                                                          | Phosphate                                    |                                              |                                                                                                               |                                              |                                  |                            |
|                                                                                          | Toxic Substances                             |                                              |                                                                                                               |                                              |                                  |                            |
| Electrical Conductivity (Reciprocal<br>megohms per Cm <sup>3</sup> at 25°C)              |                                              | 1230                                         |                                                                                                               |                                              |                                  |                            |
| Microscopical Examination                                                                |                                              | Amorphous matter                             |                                                                                                               |                                              |                                  |                            |

The sample of Sodium hypochlorite solution collected from the stock contains 3.7 % of available chlorine content as against the prescribed limit of 4 to 6% of chlorine content as per BIS standard. However the present stock of sodium hypochlorite solution may be used with slight increase of its quantity until the stock is over.

It is advised to procure fresh stock of BIS grade bleaching powder containing not less than 32% (or) 4 to 6% of sodium hypochlorite solution for water disinfection purpose. Stock should be preserved in airtight container and in dark place to prevent further depletion of available chlorine content.

**The following suggestions are offered for immediate implementation to ensure hygienic safety of drinking water supply :**

1. Proper fencing/compound wall should be provided to Jayarampettai OHT and Navalpur OHT premises to prevent the entry of strangers/cattle and to prevent the extraneous contamination of drinking water.
2. Unwanted Vegetation noticed in the premises of Weekly santhai OHT , Navalpur OHT, IVPM OHT and CWSS sump should be removed immediately and the surroundings should be kept clean and tidy as per sanitary specifications.
3. No proper manhole cover noticed at Navalpur OHT, IVPM OHT and STH OHT should be provided to avoid extraneous contamination of drinking water.
4. Pipe line leakage noticed at Weekly santhai OHT and Gate valve leakage at Weekly santhai OHT, Navalpur OHT, IVPM OHT and Navalpur OHT they should be arrested immediately to avoid mosquito breeding and the possible vector borne diseases.
5. All the sumps/OHTs should be scrubbed and cleaned with strong solution of bleaching powder atleast once a month so as to ensure hygienic safety of storage units.
6. It is advised for systematic and uninterrupted chlorination of all storage units so that all the distribution ends should record 0.2 ppm to 0.5 ppm of residual chlorine.
7. A separate Stock Register showing the particulars of procurement of Bleaching Powder/Sodium Hypo Chlorite solution, stock on hand, daily usage for chlorination, date of cleaning of OHT, scouring of pipelines etc. should be maintained for the perusal of inspecting authorities.

# RESULTS OF EXAMINATION OF SAMPLES OF WATER

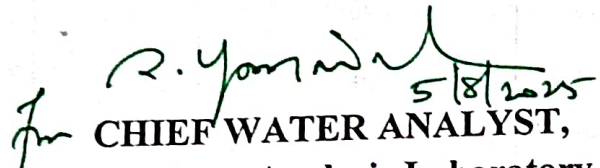
From: The Commissioner Ranipet Municipality Ranipet District.

Collected by: Thiru.U.Panneer Selvam, H.I. GR.1

TNR - 1025

|                                   |                                                                             |                                  |                    |                                                                                         |                        |                          |  |
|-----------------------------------|-----------------------------------------------------------------------------|----------------------------------|--------------------|-----------------------------------------------------------------------------------------|------------------------|--------------------------|--|
| Date of Collection : : 02.07.2025 |                                                                             | Tap at<br>Extension<br>Street    | Tap at<br>Navalpur | Mixture of<br>CWSS and<br>Palar water<br>from1 <sup>st</sup> tap<br>after OHT at<br>SMH | Tap at<br>Kelly Street | Tap at<br>Anna<br>Avenue |  |
| Date of Receipt : 03.07.2025      |                                                                             |                                  |                    |                                                                                         |                        |                          |  |
| Source as per label               |                                                                             |                                  |                    |                                                                                         |                        |                          |  |
| Bacteriological<br>Examination    | Total colonies per ml. on agar at 37°C                                      |                                  |                    |                                                                                         |                        |                          |  |
|                                   | MPN of Coliform bacteria per 100 ml.                                        | 0                                | 0                  | 0                                                                                       | 0                      | 0                        |  |
|                                   | Rapid Test for Ecoli I                                                      |                                  |                    |                                                                                         |                        |                          |  |
|                                   | Results of vibrio test                                                      |                                  |                    |                                                                                         |                        |                          |  |
| Physical<br>Examination           | Colour                                                                      |                                  |                    | Colourless                                                                              |                        |                          |  |
|                                   | Turbidity (Units)                                                           |                                  |                    | 5                                                                                       |                        |                          |  |
|                                   | Smell                                                                       |                                  |                    | Slightly<br>Chlorinous<br>(2ppm)                                                        |                        |                          |  |
| Chemical Examination (in mg/l).   | Total Solids                                                                |                                  |                    | 850                                                                                     |                        |                          |  |
|                                   | Carbonate hardness as CaCO <sub>3</sub>                                     |                                  |                    |                                                                                         |                        |                          |  |
|                                   | Non- Carbonate hardness as CaCO <sub>3</sub>                                |                                  |                    |                                                                                         |                        |                          |  |
|                                   | Total hardness as CaCO <sub>3</sub>                                         |                                  |                    |                                                                                         |                        |                          |  |
|                                   | Chloride as Chlorine                                                        |                                  |                    | 184                                                                                     |                        |                          |  |
|                                   | Ammoniacal Nitrogen                                                         |                                  |                    |                                                                                         |                        |                          |  |
|                                   | Albuminoid Nitrogen                                                         |                                  |                    |                                                                                         |                        |                          |  |
|                                   | Oxygen absorbed (Tidy's test)                                               |                                  |                    | 0                                                                                       |                        |                          |  |
|                                   | Nitrate-Nitrogen                                                            |                                  |                    |                                                                                         |                        |                          |  |
|                                   | Alkalinity }<br>as CaCO <sub>3</sub> }                                      | Phenolphthalein<br>Methyl Orange |                    |                                                                                         |                        |                          |  |
|                                   | Fluoride as Fluorine                                                        |                                  |                    |                                                                                         |                        |                          |  |
|                                   | pH.                                                                         |                                  |                    | 8.0                                                                                     |                        |                          |  |
|                                   | Iron as Fe Total                                                            |                                  |                    | 0.05                                                                                    |                        |                          |  |
|                                   | Ferrous                                                                     |                                  |                    |                                                                                         |                        |                          |  |
|                                   | Manganese as Mn.                                                            |                                  |                    |                                                                                         |                        |                          |  |
|                                   | Qualitative-<br>Nitrite Nitrogen                                            |                                  |                    | Nil                                                                                     |                        |                          |  |
|                                   | Sulphate                                                                    |                                  |                    |                                                                                         |                        |                          |  |
|                                   | Phosphate                                                                   |                                  |                    |                                                                                         |                        |                          |  |
|                                   | Toxic Substances                                                            |                                  |                    |                                                                                         |                        |                          |  |
|                                   | Electrical Conductivity (Reciprocal<br>megohms per Cm <sup>3</sup> at 25°C) |                                  |                    | 1220                                                                                    |                        |                          |  |
|                                   | Microscopical Examination                                                   |                                  |                    | Amorphous matter                                                                        |                        |                          |  |

8. The public should be health educated to use only protected water or boiled and cooled water for drinking.

  
for CHIEF WATER ANALYST,  
Chief Water Analysis Laboratory,  
Guindy, Chennai - 32.

  
5/8/25

Copy submitted to :

1. The Director of Public Health and Preventive Medicine, Teynampet, Anna Salai, Chennai -6.
2. Joint Director of Public Health and Preventive Medicine (Communicable Diseases), Anna Salai, Chennai - 6.
3. The Commissioner of Municipal Administration, 75, Santhome High Road, MRC Nagar, Chennai -28.

Copy to :

1. The District Health Officer, Ranipet District.
2. The Municipal Engineer, Ranipet Municipality.
3. The Lab and File.

**From: The Commissioner Ranipet Municipality Ranipet District.**  
**Collected by: Thiru.U.Panneer Selvam, H.I. GR.1**

Date of Receipt : 03.07.2025

Source as per label

| Date of Collection : 02.07.2025<br>Date of Receipt : 03.07.2025<br>Source as per label |                                              | Tap at Vasandham Avaneue | Tap at Zion Nagar | Tap at MGR Nagar | Tap at Uthikarai | Maximum permissible limit for drinking water as per the BIS 10500/2012 |
|----------------------------------------------------------------------------------------|----------------------------------------------|--------------------------|-------------------|------------------|------------------|------------------------------------------------------------------------|
| Bacteriological Examination                                                            | Total colonies per ml. on agar at 37°C       |                          |                   |                  |                  | 10                                                                     |
|                                                                                        | MPN of Coliform bacteria per 100 ml.         | 0                        | 0                 | 0                |                  | 0                                                                      |
|                                                                                        | Rapid Test for Ecoli I                       |                          |                   |                  |                  | absent                                                                 |
|                                                                                        | Results of vibrio test                       |                          |                   |                  |                  |                                                                        |
| Physical Examination                                                                   | Colour                                       |                          |                   |                  |                  | Colourless                                                             |
|                                                                                        | Turbidity (Units)                            |                          |                   |                  |                  | 5                                                                      |
|                                                                                        | Smell                                        |                          |                   |                  |                  | None                                                                   |
| Chemical Examination (in mg/l).                                                        | Total Solids                                 |                          |                   |                  |                  | 2000                                                                   |
|                                                                                        | Carbonate hardness as CaCO <sub>3</sub>      |                          |                   |                  |                  | -                                                                      |
|                                                                                        | Non- Carbonate hardness as CaCO <sub>3</sub> |                          |                   |                  |                  | -                                                                      |
|                                                                                        | Total hardness as CaCO <sub>3</sub>          |                          |                   |                  |                  | 600                                                                    |
|                                                                                        | Chloride as Chlorine                         |                          |                   |                  |                  | 1000                                                                   |
|                                                                                        | Ammoniacal Nitrogen                          |                          |                   |                  |                  | Nil                                                                    |
|                                                                                        | Albuminoid Nitrogen                          |                          |                   |                  |                  | Nil                                                                    |
|                                                                                        | Oxygen absorbed (Tidy's test)                |                          |                   |                  |                  | 1.0                                                                    |
|                                                                                        | Nitrate-Nitrogen                             |                          |                   |                  |                  | 10.2                                                                   |
|                                                                                        | Alkalinity } Phenolphthalein                 |                          |                   |                  |                  | -                                                                      |
|                                                                                        | as CaCO <sub>3</sub> } Methyl Orange         |                          |                   |                  |                  | 600                                                                    |
|                                                                                        | Fluoride as Fluorine                         |                          |                   |                  |                  | 1.5                                                                    |
|                                                                                        | pH.                                          |                          |                   |                  |                  | 6.5-8.5                                                                |
|                                                                                        | Iron as Fe Total                             |                          |                   |                  |                  | 1.0                                                                    |
|                                                                                        | Ferrous                                      |                          |                   |                  |                  | Nil                                                                    |
|                                                                                        | Manganese as Mn.                             |                          |                   |                  |                  | 0.3                                                                    |
|                                                                                        | Qualitative- Nitrite Nitrogen                |                          |                   |                  |                  | Trace                                                                  |
|                                                                                        | Sulphate                                     |                          |                   |                  |                  | Present                                                                |
|                                                                                        | Phosphate                                    |                          |                   |                  |                  | Trace                                                                  |
|                                                                                        | Toxic Substances                             |                          |                   |                  |                  | -                                                                      |
| Electrical Conductlvtly (Reciprocal megohms per Cm <sup>3</sup> at 25°C)               |                                              |                          |                   |                  | -                |                                                                        |
| Microscopical Examination                                                              |                                              |                          |                   |                  |                  |                                                                        |