

| Surface Water Quality Data in Puducherry - October 2024 |                                                |                  |              |              |
|---------------------------------------------------------|------------------------------------------------|------------------|--------------|--------------|
| Sl. No.                                                 | Parameters                                     | Chunnambar River | Ousteri Lake | Kanagan Lake |
|                                                         | Station Code                                   | 1689             | 1396         | 4634         |
| 1                                                       | Latitude                                       | 11.883585 N      | 11.950528 N  | 11.935104 N  |
| 2                                                       | Longitude                                      | 79.787326 E      | 79.746583 E  | 79.798522 E  |
| 3                                                       | Dt.of Sampling                                 | 03.10.2024       | 03.10.2024   | 03.10.2024   |
| 4                                                       | Time                                           | 11: 00 A.M       | 12: 00 P.M   | 1:10 P:M     |
| 5                                                       | Temperature °C                                 | 32.0             | 32.0         | 32.0         |
| 6                                                       | DO (mg/l)                                      | 5.9              | 5.5          | 10.8         |
| 7                                                       | pH                                             | 7.97             | 7.8          | 8.58         |
| 8                                                       | Conductivity (µmho/cm)                         | 1589             | 887          | 1216         |
| 9                                                       | COD (mg/l)                                     | 36.3             | 28.2         | 44.4         |
| 10                                                      | BOD (mg/l)                                     | 5.8              | 2.5          | 7.0          |
| 11                                                      | Turbidity NTU                                  | 8.7              | 1.3          | 9.4          |
| 12                                                      | Nitrate -N (mg/l)                              | BDL (DL:0.3)     |              |              |
| 13                                                      | Nitrite-N (mg/l)                               | BDL (DL:0.02)    |              |              |
| 14                                                      | Nitrate (mg/l)                                 | BDL              |              |              |
| 15                                                      | P. Alkalinity (mg/l)                           | BDL (DL:5.0)     |              | 24.0         |
| 16                                                      | Total Alkalinity (mg/l)                        | 220              | 100          | 248          |
| 17                                                      | Chloride (mg/l)                                | 216              | 76.2         | 230.1        |
| 18                                                      | Ammonia -N (mg/l)                              | BDL (DL:0.4)     |              |              |
| 19                                                      | Total Hardness as CaCO <sub>3</sub> (mg/l)     | 246              | 104          | 218          |
| 20                                                      | Calcium Hardness as CaCO <sub>3</sub> (mg/l)   | 172              | 44           | 156          |
| 21                                                      | Magnesium Hardness as CaCO <sub>3</sub> (mg/l) | 74               | 60           | 62           |
| 22                                                      | Calcium as Ca <sup>++</sup> (mg/l)             | 68.8             | 17.6         | 62.4         |

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|------------|--------------------------------------|------------------|---------------|--------------|
|            | Station Code                         | 1689             | 1396          | 4634         |
| 23         | Magnesium as Mg <sup>++</sup> (mg/l) | 17.98            | 14.58         | 15.07        |
| 24         | TDS (mg/l)                           | 920              | 504           | 734          |
| 25         | TSS (mg/l)                           | 19.0             | BDL (DL:10.0) | 22.0         |
| 26         | FDS /TFS (mg/l)                      | 676              | 340           | 499          |
| 27         | Sodium (mg/l)                        | 240.3            | 68.65         | 183.5        |
| 28         | Potassium (mg/l)                     | 4.47             | 4.12          | 9.41         |
| 29         | Sulphate (mg/l)                      | 62.28            | 6.91          | 31.14        |
| 30         | Ortho phosphate (mg/l)               | 0.21             | 0.08          | 0.38         |
| 31         | % Sodium                             | 67.4             | 57.56         | 63.34        |
| 32         | Fluoride (mg/l)                      | 0.66             | 0.54          | 0.77         |
| 33         | SAR                                  | 6.6              | 2.9           | 5.4          |
| 34         | Total Coliform MPN/100 ml            | >1600            | >1600         | >1600        |
| 35         | Faecal Coliform MPN/100ml            | 920              | 920           | >1600        |
| 36         | Faecal Streptococci MPN/100ml        | 94               | 63            | 70           |

**BDL - Below Detectable Limit; DL - Detection Limit**