Surface Water Quality Data in Puducherry - September 2026

Sl. No.	Parameters	Ousteri Lake	Kanagan Lake	Chunnambar River
	Station Code	**1396**	**4634**	**1689**
1	**Latitude**	11.950528 N	11.935104 N	11.883585 N
2	**Longitude**	79.746583 E	79.798522 E	79.787326 E
3	**Dt.of Sampling**	02.09.2026	02.09.2026	01.09.2026
4	**Time**	04.00 P.M	03.05 P.M	10.45 A.M
5	**Temperature °C**	37.0	37.0	35.0
6	**DO mg/l**	8.7	9.2	3.6
7	**pH**	8.14	8.38	7.85
8	**Conductivity µmho/cm**	608	1110	1784
9	**COD (mg/l)**	60.0	76.0	52.0
10	**BOD (mg/l)**	4.0	10.0	2.5
11	**Turbidity NTU**	12.6	23.1	7.6
12	**Nitrate -N (mg/l)**	BDL (DL: 0.3)		
13	**Nitrite-N (mg/l)**	BDL (DL: 0.02)		
14	**Nitrate (mg/l)**	BDL		
15	**Carbonate (mg/l)**	BDL	6	BDL
16	**Bi- Carbonate (mg/l)**	219.6	123.22	397.72
17	**P. Alkalinity (mg/l)**	BDL (DL: 5)	10	BDL (DL: 5)
18	**Total Alkalinity (mg/l)**	180	111	326
19	**Fluoride (mg/l)**	0.60	0.75	0.70
20	**Chloride (mg/l)**	73.8	238.0	292.4
21	**Ammonia -N (mg/l)**	BDL (DL: 0.4)		
22	**Total Hardness as $CaCO_3$ (mg/l)**	123.5	158.8	250.9
23	**Calcium Hardness as $CaCO_3$ (mg/l)**	54.9	84.3	80.4

Sl. No.	Parameters	Ousteri Lake	Kanagan Lake	Chunnambar River
	Station Code	**1396**	**4634**	**1689**
24	**Magnesium Hardness as $CaCO_3$ (mg/l)**	68.6	74.5	170.5
25	**Calcium as Ca++ (mg/l)**	22.0	33.7	32.16
26	**Magnesium as Mg++ (mg/l)**	16.67	18.1	41.43
27	**TDS (mg/l)**	388	669	983
28	**TSS (mg/l)**	BDL (DL: 10)		
29	**FDS /TFS (mg/l)**	194	368	760
30	**Sodium (mg/l)**	46.1	102.4	262.1
31	**Potassium (mg/l)**	11.08	13.3	7.29
32	**Hexavalent Chromium (mg/l)**	BDL (DL: 0.05)		
33	**Sulphate (mg/l)**	8.86	50.02	84.90
34	**Ortho phosphate (mg/l)**	BDL (DL: 0.05)		
35	**% Sodium**	41.97	55.74	68.47
36	**SAR**	1.8	3.52	7.16
37	**Copper (mg/l)**	BDL (DL:0.02)		
38	**Nickel (mg/l)**	BDL (DL:0.005)		
39	**Cadmium (mg/l)**	BDL (DL:0.001)		
40	**Lead (mg/l)**	BDL (DL:0.005)		
41	**Total Chromium (mg/l)**	BDL (DL:0.02)		
42	**Iron (Total) mg/l**	0.24	0.85	0.12
43	**Zinc (mg/l)**	BDL (DL:0.05)		
44	**Arsenic (mg/l)**	BDL (DL:0.005)		
45	**Mercury (mg/l)**	BDL (DL:0.0005)		
46	**Total Coliform MPN/100 ml**	1600	920	220
47	**Faecal Coliform MPN/100ml**	920	170	6
48	**Faecal Streptococci MPN/100ml**	350	220	11

BDL - Below Detectable Limit; DL - Detection Limit

Sampling was not carried out in Bahour Lake due to insufficient water flow.