

Surface Water Quality Data in Puducherry - September 2025

Sl. No.	Parameters	Kanagan Lake	Ousteri Lake	Chunnambar River	Bahour Lake
	Station Code	4634	1396	1689	1686
1	Latitude	11.935104 N	11.950528 N	11.883585 N	11.829944 N
2	Longitude	79.798522 E	79.746583 E	79.787326 E	79.743139 E
3	Dt.of Sampling	01.09.2025	01.09.2025	02.09.2025	02.09.2025
4	Time	01.45 P.M	05.15 P.M	01.45 P.M	04.15 P.M
5	Temperature °C	30.0	30.0	32.0	30.0
6	DO mg/l	9.8	5.6	9.4	0.6
7	pH	7.72	7.45	8.78	7.05
8	Conductivity µmho/cm	1194	413	1386	773
9	COD (mg/l)	40.0	36.0	56.0	60.0
10	BOD (mg/l)	6.3	5.8	4.0	2.8
11	Turbidity NTU	8.1	8.8	10.2	8.2
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)		26	BDL (DL: 5)
16	Total Alkalinity (mg/l)	184	120	210	246
17	Fluoride (mg/l)	0.84	0.75	1.15	1.42
18	Chloride (mg/l)	235.1	36.9	224.4	77.7
19	Ammonia -N (mg/l)	BDL (DL: 0.4)			
20	Total Hardness as CaCO ₃ (mg/l)	268.0	106.0	212.0	166.0
21	Calcium Hardness as CaCO ₃ (mg/l)	160.0	48.0	54.0	88.0
22	Magnesium Hardness as CaCO ₃ (mg/l)	108.0	58.0	158.0	78.0
23	Calcium as Ca ⁺⁺ (mg/l)	64	19.2	21.6	35.2

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24	Magnesium as Mg ⁺⁺ (mg/l)	26.2	14.1	38.4	19.0
25	TDS (mg/l)	715	246	746	546
26	TSS (mg/l)	14.0	BDL (DL:10.0)	20.0	41.0
27	FDS /TFS (mg/l)	496	123	521	394
28	Sodium (mg/l)	455.9	40.5	596.5	462.2
29	Potassium (mg/l)	9.5	5.2	9.3	6.2
30	Sulphate (mg/l)	40.8	6.02	70.03	15.64
31	Ortho phosphate (mg/l)	0.49	0.07	0.07	0.06
32	% Sodium	77.91	43.74	85.18	85.17
33	SAR	12.08	1.70	17.73	15.54
34	Copper (mg/l)	BDL (DL:0.02)			
35	Nickel (mg/l)	BDL (DL:0.005)			
36	Cadmium (mg/l)	BDL (DL:0.001)			
37	Lead (mg/l)	BDL (DL:0.005)			
38	Total Chromium (mg/l)	BDL (DL:0.02)			
39	Iron (Total) mg/l	0.21	0.12	0.18	1.06
40	Zinc (mg/l)	BDL (DL:0.05)			
41	Arsenic (mg/l)	BDL (DL:0.005)			
42	Mercury (mg/l)	BDL (DL:0.0005)			
43	Total Coliform MPN/100 ml	210	220	240	140
44	Faecal Coliform MPN/100ml	63	43	33	17
45	Faecal Streptococci MPN/100ml	17	20	21	<1.8
46	Alpha HCH µg/l	BDL			
47	Gamma HCH µg/l	BDL			
48	Detla HCH µg/l	BDL			
49	Methyl Parathion µg/l	BDL			
50	Alachor µg/l	BDL			

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51	Aldrin µg/l	BDL			
52	Malathion µg/l	BDL			
53	Chlorpyrifos µg/l	BDL			
54	Alpha Endosulfan µg/l	BDL			
55	Butachlor µg/l	BDL			
56	Beta Endosulfan µg/l	BDL			
57	Phorate µg/l	BDL			
58	op DDT µg/l	BDL			
59	op DDD µg/l	BDL			
60	pp DDD µg/l	BDL			
61	op DDE µg/l	BDL			
62	pp DDE µg/l	BDL			
63	Dieldrin µg/l	BDL			
64	Ethion µg/l	BDL			
65	Endosulfan sulfate µg/l	BDL			
66	pp DDT µg/l	BDL			

BDL - Below Detectable Limit; DL - Detection Limit