

Surface Water Quality Data in Puducherry - January 2025

Sl. No.	Parameters	Ousteri Lake	Kanagan Lake	Chunnambar River	Bahour Lake
	Station Code	1396	4634	1689	1686
1	Latitude	11.950528 N	11.935104 N	11.883585 N	11.829944 N
2	Longitude	79.746583 E	79.798522 E	79.787326 E	79.743139 E
3	Dt.of Sampling	07.01.2025	07.01.2025	07.01.2025	07.01.2025
4	Time	10.15 A.M	10.45 A.M	11.30 A.M	12.20 P.M
5	Temperature °C	28.0	28.0	29.0	29.0
6	DO mg/l	7.4	2.7	7.5	5.9
7	pH	7.71	6.95	7.87	7.41
8	Conductivity µmho/cm	258	584	697	435
9	COD (mg/l)	12.0	16.1	24.1	20.1
10	BOD (mg/l)	1.0	2.3	5.5	2.8
11	Turbidity NTU	BDL (DL:1.0)	1.4	1.3	1.1
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)			
16	Total Alkalinity (mg/l)	67	94	154	108
17	Fluoride (mg/l)	1.29	1.28	1.32	1.35
18	Chloride (mg/l)	12.1	47.0	43.2	22.8
19	Ammonia -N (mg/l)	BDL (DL:0.4)			
20	Total Hardness as CaCO ₃ (mg/l)	80.0	142.0	202.0	108.0
21	Calcium Hardness as CaCO ₃ (mg/l)	52.0	98.0	114.0	60.0
22	Magnesium Hardness as CaCO ₃ (mg/l)	28.0	44.0	88.0	48.0
23	Calcium as Ca ⁺⁺ (mg/l)	20.8	39.2	45.6	24.0

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24	Magnesium as Mg ⁺⁺ (mg/l)	6.8	10.7	21.4	11.7
25	TDS (mg/l)	141	281	420	264
26	TSS (mg/l)	BDL (DL:10.0)			
27	FDS /TFS (mg/l)	83	174	239	170
28	Sodium (mg/l)	20.56	59.91	63.12	45.20
29	Potassium (mg/l)	2.98	4.62	4.8	2.75
30	Sulphate (mg/l)	BDL (DL:5.0)	5.75	6.58	BDL (DL:5.0)
31	Ortho phosphate (mg/l)	BDL (DL:0.05)		0.15	BDL (DL:0.05)
32	% Sodium	34.69	46.72	39.6	46.67
33	SAR	1.0	2.2	1.9	1.9
34	Total Coliform MPN/100 ml	1600	1600	540	1600
35	Faecal Coliform MPN/100ml	1600	140	540	540
36	Faecal Streptococci MPN/100ml	84	110	130	94

BDL - Below Detectable Limit; DL - Detection Limit