

Surface Water Quality Data in Puducherry - JANUARY 2024

Sl. No.	Parameters	Chunnambar River	Bahour Lake	Ousteri Lake
	Station Code	1689	1686	1396
1	Latitude	11.883585 N	11.829944 N	11.950528 N
2	Longitude	79.787326 E	79.743139 E	79.746583 E
3	Dt.of Sampling	04.01.2024	04.01.2024	04.01.2024
4	Time	11.00 AM	11.30 AM	01.00 PM
5	Temperature °C	28.0	28.0	28.0
6	DO mg/l	11.5	3.8	6.3
7	pH	8.75	7.69	8.14
8	Conductivity µmho/cm	1030	1007	464
9	COD (mg/l)	32.3	12	16.1
10	BOD (mg/l)	8.3	1.2	BDL (DL : 1.0)
11	Turbidity NTU	4.6	1.6	1.9
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)	24	BDL (DL : 5.0)	12
16	Total Alkalinity (mg/l)	216	184	119
17	Chloride (mg/l)	155.56	136.97	55.76
18	Ammonia -N (mg/l)	0.57	0.52	0.52
19	Total Hardness as CaCO ₃ (mg/l)	206.0	202.0	108.0
20	Calcium Hardness as CaCO ₃ (mg/l)	116	126	64
21	Magnesium Hardness as CaCO ₃ (mg/l)	90	76	44
22	Calcium as Ca ⁺⁺ (mg/l)	46.4	50.4	25.6

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23	Magnesium as Mg ⁺⁺ (mg/l)	21.87	18.47	10.69
24	TDS (mg/l)	569.0	485.0	225.0
25	TSS (mg/l)	20.0	BDL (DL : 10.0)	
26	FDS /TFS (mg/l)	373.0	345.0	54.0
27	Sodium (mg/l)	109.67	99.36	42.45
28	Potassium (mg/l)	4.32	4.55	3.92
29	Sulphate (mg/l)	35.98	17.9	BDL (DL:5.0)
30	Ortho phosphate (mg/l)	0.07	0.06	BDL (DL:0.05)
31	% Sodium	52.85	50.85	44.83
32	SAR	3.30	3.0	1.8
33	Copper (mg/l)	0.098	0.032	0.062
34	Nickel (mg/l)	BDL		
35	Cadmium (mg/l)	BDL		
36	Lead (mg/l)	BDL		
37	Total Chromium (mg/l)	BDL		
38	Iron (Total) mg/l	0.29	0.37	0.48
39	Zinc (mg/l)	0.019	0.02	0.035
40	Arsenic (mg/l)	BDL		
41	Mercury (mg/l)	BDL		
42	Total Coliform MPN/100 ml	900	500	1600
43	Faecal Coliform MPN/100ml	90	300	220
44	Faecal Streptococci MPN/100ml	120	170	220
45	Alpha HCH µg/l	BDL		
46	Gamma HCH µg/l	BDL		
47	Detla HCH µg/l	BDL		
48	Methyl Parathion µg/l	BDL		
49	Alachor µg/l	BDL		
50	Aldrin µg/l	BDL		
51	Malathion µg/l	BDL		

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

BDL - Below Detectable Limit; DL - Detection Limit