

Surface Water Quality Data in Puducherry for JUL- SEP 2022 Quarter

Sl.No.	Parameters	Kanagan Lake	Ousteri Lake	Chunnambar River
	Station Code	4634	1396	1689
1	Latitude	11.935104 N	11.950528 N	11.883585 N
2	Longitude	79.798522 E	79.746583 E	79.787326 E
3	Dt.of Sampling	26.09.2022	26.09.2022	26.09.2022
4	Time	10:15 A.M.	11:20 A.M.	3:30 P.M.
5	Temperature °C	28 °C	28 °C	32 °C
6	DO mg/l	6.3	7.2	11.7
7	pH	7.78	8.64	9.08
8	Conductivity µmho/cm	1642	451	1666
9	COD (mg/l)	44.9	28.6	48.6
10	BOD (mg/l)	5.5	2.8	5.5
11	Turbidity NTU	7.9	4.4	8.1
12	Nitrate -N (mg/l)	BDL (DL : 0.3)		
13	Nitrite-N (mg/l)	BDL (DL : 0.02)		
14	Nitrate (mg/l)	0.62	0.49	BDL
15	Carbonate (mg/l)	BDL (DL : 3.0)	5.94	16.63
16	Bi- Carbonate (mg/l)	132.86	130.44	198.08
17	P. Alkalinity (mg/l)	BDL (DL : 5.0)	9.9	27.72
18	Total Alkalinity (mg/l)	109	117	190
19	M. Alkalinity (mg/l)	108.9	106.92	162.36
20	Chloride (mg/l)	261.92	41.99	220.93
21	Ammonia -N (mg/l)	BDL (DL : 0.4)		
22	Total Hardness as CaCO ₃ (mg/l)	200.0	80.0	176.0
23	Calcium Hardness as CaCO ₃ (mg/l)	120	50	76
24	Magnesium Hardness as CaCO ₃ (mg/l)	80	30	100
25	Calcium as Ca ⁺⁺ (mg/l)	48	20	30.4

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26	Magnesium as Mg++ (mg/l)	19.4	7.29	18.5
27	TDS (mg/l)	778.0	230.0	724.0
28	TSS (mg/l)	32.0	BDL (DL : 10)	26.0
29	FDS /TFS (mg/l)	409.0	91.0	515.0
30	Sodium (mg/l)	224.3	36.9	237.3
31	Potassium (mg/l)	8.1	4.8	7.3
32	Hexavalent Chromium (mg/l)	BDL (DL : 0.05)		
33	Sulphate (mg/l)	42.98	BDL (DL : 5.0)	54.0
34	Ortho phosphate (mg/l)	BDL (DL : 0.05)		
35	% Sodium	69.76	48.11	76.05
36	SAR	6.9	1.8	8.3
37	Copper (mg/l)	BDL (DL : 0.01)		
38	Nickel (mg/l)	BDL (DL : 0.01)		
39	Cadmium (mg/l)	BDL (DL : 0.001)		
40	Lead (mg/l)	BDL (DL : 0.005)		
41	Total Chromium (mg/l)	BDL (DL : 0.01)		
42	Iron (mg/l)	0.065	0.022	BDL (DL : 0.02)
43	Zinc (mg/l)	0.195	0.131	BDL (DL : 0.1)
44	Arsenic (mg/l)	BDL(DL : 0.005)		
45	Mercury (mg/l)	BDL(DL : 0.0005)		
46	Total Coliform MPN/100 ml	110	84	140
47	Faecal Coliform MPN/100ml	94	70	110
48	Faecal Streptococci MPN/100ml	46	33	49
49	Alpha HCH µg/l	BDL		
50	Gamma HCH µg/l	BDL		
51	Detla HCH µg/l	BDL		
52	Methyl Parathion µg/l	BDL		
53	Alachor µg/l	BDL		
54	Aldrin µg/l	BDL		
55	Malathion µg/l	BDL		

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56	Chlorpyrifos µg/l	BDL		
57	Alpha Endosulfan µg/l	BDL		
58	Butachlor µg/l	BDL		
59	Beta Endosulfan µg/l	BDL		
60	Phorate µg/l	BDL		
61	op DDT µg/l	BDL		
62	op DDD µg/l	BDL		
63	pp DDD µg/l	BDL		
64	op DDE µg/l	BDL		
65	pp DDE µg/l	BDL		
66	Dieldrin µg/l	BDL		
67	Ethion µg/l	BDL		
68	Endosulfan sulfate µg/l	BDL		
69	pp DDT µg/l	BDL		

BDL - Below Detectable Limit; DL - Detection Limit