

**Ground Water Quality Data in Puducherry during Post- Monsoon 2026**

Sl. No	Parameters	Muthirapalayam	Metupalayam	Maruti school	Krishna nagar	Chetty koil	Chevaliar school	Pondicherry University	Thengaithittu	Kurumapet	Panithittu	Eachangadu	Bahour Borewell	Uruvaiyar	Madukarai	Kothapurinatham	Thirukamur	Katterikuppam	Sedarapet	Acceptable Limit (IS 10500 : 2012)	Permissible limit (IS 10500 : 2012)		
Station Code		1453	2010	2012	1397	1687	3884	1454	1398	2009	4633	3882	3883	2011	4632	3886	4631	1688	3885				
1	Latitude ( N )	11.938128	11.943233	11.967997	11.953022	11.936917	12.038022	12.017064	11.910344	11.930503	11.829497	11.821469	11.813551	11.886886	11.871408	11.9305	11.991119	12.004731	11.990417				
2	Longitude ( E )	79.779925	79.785456	79.817231	79.820189	79.831028	78.865722	79.850761	79.817528	79.761528	79.803069	79.796228	79.746173	79.748529	79.603708	79.661694	79.639742	79.700811	79.755278				
3	Dt.of Sampling	05.02.2026	02.02.2026	02.02.2026	02.02.2026	02.02.2026	02.02.2026	02.02.2026	02.02.2026	02.02.2026	03.02.2026	05.02.2026	03.02.2026	03.02.2026	03.02.2026	03.02.2026	03.02.2026	05.02.2026	05.02.2026				
4	Time	03.45 P.M	11.50 A.M	04.45 P.M	04.35 P.M	05.20 P.M	04.15 P.M	03.45 P.M	01.15 P.M	11.15 A.M	11.45 A.M	11.45 A.M	12.45 P.M	01.20 P.M	04.00 P.M	04.30 P.M	05.00 P.M	03.00 P.M	02.00 P.M				
5	Temperature °C	31.0	30.0	30.0	30.0	30.0	29.0	29.0	30.0	30.0	30.0	32.0	29.0	29.0	30.0	31.0	30.0	30.0	31.0				
6	pH	6.31	6.26	6.25	5.98	7.15	6.63	5.94	6.87	6.71	6.63	6.09	7.38	7.10	6.98	7.21	6.62	6.83	7.03	6.5 - 8.5	NR		
7	Conductivity umho/cm	756	1071	1875	1905	1754	1072	388	3970	690	1030	582	444	2680	1643	1140	1171	842	1437				
8	COD (mg/l)	BDL (DL:5.0)																					
9	Turbidity NTU	BDL (DL:1.0)																			1	5	
10	Nitrate -N (mg/l)	1.21	0.35	0.94	2.47	0.66	1.05	0.65	BDL	1.42	BDL (DL:0.3)				1.75	1.13	1.46	0.55	1.03				
11	Nitrite-N (mg/l)	BDL (DL:0.02)					0.29	BDL (DL:0.02)															
12	Nitrate (mg/l)	5.36	1.55	4.16	10.94	2.92	4.65	2.88	BDL	6.29	BDL				7.75	5.00	6.47	2.44	4.56	45	NR		
13	Ammonia-N (mg/l)	BDL (DL: 0.4)																					
14	BOD (mg/l)	BDL (DL: 1.0)																					
15	Fluoride (mg/l)	0.49	0.31	0.35	0.26	BDL (DL:0.2)		0.29	0.65	BDL (DL:0.2)	0.35	0.53	0.57	0.53	0.35	0.30	0.23	BDL (DL:0.2)	0.56	1	1.5		
16	P. Alkalinity (mg/l)	BDL (DL:5.0)																					
17	Total Alkalinity (mg/l)	216	144	174	100	422	162	78	286	154	214	272	192	204	442	494	402	466	398	200	600		
18	Chloride (mg/l)	97.4	91.6	488.9	429.1	283.5	169.7	54.0	877.5	91.6	194.8	48.2	24.1	648.0	484.0	75.2	131.1	40.5	136.0	250	1000		
19	Total Hardness as CaCO <sub>3</sub> (mg/l)	216	298	350	386	396	238	112	642	196	230	186	124	528	368	352	336	396	406	200	600		

Sl. No	Parameters	Muthirapalayam	Mettupalayam	Maruti school	Krishna nagar	Chetty koil	Chevaliar school	Pondicherry University	Thengaithittu	Kurumapet	Panithittu	Eachangadu	Bahour Borewell	Uruvaiyar	Madukarai	Kothapurinatham	Thirukanur	Katterikuppam	Sedarapet	Acceptable Limit (IS 10500 : 2012)	Permissible limit (IS 10500 : 2012)	
	Station Code	1453	2010	2012	1397	1687	3884	1454	1398	2009	4633	3882	3883	2011	4632	3886	4631	1688	3885			
20	Calcium Hardness as CaCO <sub>3</sub> (mg/l)	138	214	208	234	268	80	54	350	122	110	142	80	330	180	180	268	190	396			
21	Magnesium Hardness as CaCO <sub>3</sub> (mg/l)	78	84	142	152	128	158	58	292	74	120	44	44	198	188	172	68	206	10			
22	Calcium as Ca <sup>++</sup> (mg/l)	55.2	85.6	83.2	93.6	107.2	32.0	21.6	140.0	48.8	44.0	56.8	32.0	132.0	72.0	72.0	107.2	76.0	158.4	75	200	
23	Magnesium as Mg <sup>++</sup> (mg/l)	19.0	20.4	34.5	36.9	31.1	38.4	14.1	71.0	18.0	29.2	10.7	10.7	48.1	45.7	41.8	16.7	50.1	2.4	30	100	
24	TDS (mg/l)	494	642	1293	1219	1074	630	246	2396	447	611	308	297	1749	1036	752	734	481	980	500	2000	
25	TSS (mg/l)	BDL (DL:10.0)																				
26	FDS / TFS (mg/l)	379	323	897	798	784	370	103	1799	380	375	142	142	1422	655	528	446	365	633			
27	Sodium (mg/l)	77.16	97.65	345.80	307.40	215.20	106.30	22.18	705.70	56.34	118.80	42.55	42.21	424.90	254.70	110.72	97.57	26.78	105.62			
28	Potassium (mg/l)	3.98	3.83	12.27	9.75	13.69	3.91	0.40	7.59	6.87	3.92	2.90	1.03	4.08	4.28	6.46	3.16	4.56	2.98			
29	Sulphate (mg/l)	52.29	265.10	77.70	141.70	83.12	54.45	19.35	210.20	37.94	36.30	20.06	16.14	141.50	117.60	77.86	44.29	22.37	199.70	200	400	
30	Ortho phosphate (mg/l)	0.44	0.23	0.16	0.48	0.76	0.11	0.78	0.70	0.65	BDL (DL:0.05)	0.75	0.54	0.28	0.12	0.44	BDL (DL:0.05)		0.15			
31	% Sodium	43.02	41.13	67.19	62.56	51.76	48.55	80.97	70.07	37.33	52.19	32.72	42.16	63.30	59.57	39.92	38.31	12.58	35.91			
32	SAR	2.28	2.46	8.02	6.79	4.69	2.98	9.08	12.07	1.75	3.39	1.35	1.64	8.02	5.75	2.56	2.31	0.58	2.28			
33	Total Coliform MPN/100 ml	140	32	26	220	280	110	63	220	<1.8	220	350	70	220	240	170	280	26	170	Nil	Nil	
34	Faecal Coliform MPN/100 ml	<1.8							46	<1.8	46	58	<1.8			70	49	63	<1.8		Nil	Nil

Sl. No	Parameters	Muthirapalayam	Mettupalayam	Maruti school	Krishna nagar	Chetty koil	Chevaliar school	Pondicherry University	Thengaithittu	Kurumapet	Panithittu	Eachangadu	Bahour Borewell	Uruvaiyar	Madukarai	Kothapurinatham	Thirukanur	Katterikuppam	Sedarapet	Acceptable Limit (IS 10500 : 2012)	Permissible limit (IS 10500 : 2012)	
Station Code		1453	2010	2012	1397	1687	3884	1454	1398	2009	4633	3882	3883	2011	4632	3886	4631	1688	3885			
35	Faecal Streptococci MPN/100 ml	<1.8										140	70	<1.8		46	94	110	<1.8	110	Nil	Nil
36	Copper (mg/l)	BDL (DL:0.02)																			0.05	1.5
37	Nickel (mg/l)	BDL (DL:0.005)																			0.02	NR
38	Cadmium (mg/l)	BDL (DL:0.001)																			0.003	NR
39	Lead (mg/l)	BDL (DL:0.005)																			0.01	NR
40	Total Chromium (mg/l)	BDL (DL:0.02)																			0.05	NR
41	Iron (mg/l)	0.25	0.72	0.34	0.47	0.29	0.32	0.37	0.36	0.14	0.41	0.66	0.70	0.23	0.17	0.15	0.08	0.43	0.52	0.3	NR	
42	Zinc (mg/l)	BDL (DL:0.05)																			5	15
43	Arsenic (mg/l)	BDL (DL:0.005)																			0.01	0.05
44	Mercury (mg/l)	BDL (DL:0.0005)																			0.001	NR

Sl. No	Parameters	Muthirapalayam	Metupalayam	Maruti school	Krishna nagar	Chetty koil	Chevaliar school	Pondicherry University	Thengaittittu	Kurumapet	Panithittu	Eachangadu	Bahour Borewell	Uruvaiyar	Madukarai	Kothapurinatha	Thirukamur	Katterikuppam	Sedarapet	Limit µg/l
Station Code		1453	2010	2012	1397	1687	3884	1454	1398	2009	4633	3882	3883	2011	4632	3886	4631	1688	3885	
45	Alpha HCH µg/l	BDL																		0.01
46	Gamma HCH µg/l	BDL																		2.0
47	Delta HCH µg/l	BDL																		0.04
48	Methyl Parathion µg/l	BDL																		0.3
49	Alachor µg/l	BDL																		20
50	Aldrin µg/l	BDL																		0.03
51	Malathion µg/l	BDL																		190
52	Chlorpyrifos µg/l	BDL																		30
53	Alpha Endosulfan µg/l	BDL																		0.4
54	Butachlor µg/l	BDL																		125
55	Beta Endosulfan µg/l	BDL																		0.4
56	Phorate µg/l	BDL																		2
57	op DDT µg/l	BDL																		1
58	op DDD µg/l	BDL																		1
59	pp DDD µg/l	BDL																		1
60	op DDE µg/l	BDL																		1
61	pp DDE µg/l	BDL																		1
62	Dieldrin µg/l	BDL																		0.03
63	Ethion µg/l	BDL																		3
64	Endosulfan sulfate µg/l	BDL																		0.4
65	pp DDT µg/l	BDL																		1

BDL - Below Detection Limit DL - Detection Limit

NR - No Relaxation