Ground Water Quality Data in Puducherry during Pre- Monsoon 2026

Sl. No	Parameters	Muthirapalayam	Mettupalayam	Maruti school	Krishna nagar	Chetty koil	Chevaliar school	Pondicherry University	Thengaithittu	Kurumapet	Panithitttu	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**		
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**	02.09.2026	02.09.2026	01.09.2026	01.09.2026	04.09.2026	01.09.2026	01.09.2026	01.09.2026	04.09.2026	01.09.2026	01.09.2026	01.09.2026	01.09.2026	02.09.2026	02.09.2026	02.09.2026	02.09.2026	02.09.2026		
4	**Time**	01.15 P.M	03.25 P.M	03.25 P.M	05.25 P.M	11.50 A.M	03.55 P.M	04.50 P.M	10.00 A.M	11.05 A.M	11.25 A.M	11.50 A.M	12.30 P.M	12.40 P.M	10.50 A.M	04.40 P.M	11.55 A.M	12.20 P.M	05.55 P.M		
5	**Temperature °C**	32.0	33.0	33.0	32.0	32.5	35.0	32.0	35.0	36.0	34.0	34.5	34.0	34.0	32.0	32.0	32.0	30.0	32.0		
6	**pH**	6.35	6.30	6.34	6.01	6.91	7.05	5.94	7.16	6.19	6.26	6.43	6.81	7.03	7.01	7.05	7.50	7.35	6.95	6.5 - 8.5	NR
7	**Conductivity µmho/cm**	864	1076	2300	2030	1607	1010	467	3600	792	930	628	434	2850	1671	1094	1156	683	2120		
8	**COD (mg/l)**	BDL (DL: 5.0)																			
9	**Turbidity NTU**	BDL (DL: 1.0)					1.20	3.2	1.9	BDL	BDL (DL: 1.0)									1	5
10	**Nitrate -N (mg/l)**	2.08	0.64	0.66	4.20	1.04	2.33	1.31	BDL	4.30	BDL (DL: 0.3)				2.34	1.29	3.09	0.41	0.53		
11	**Nitrite-N (mg/l)**	BDL (DL: 0.02)				0.13	0.02	BDL (DL: 0.02)													
12	**Nitrate (mg/l)**	9.21	2.83	2.92	18.60	4.61	10.3	5.80	BDl	19.04	BDL				10.36	5.71	13.68	1.82	2.35	45	NR
13	**Carbonate (mg/l)**	BDL (DL: 3.0)																			
14	**Bi- Carbonate (mg/l)**	246.44	201.30	239.12	135.42	478.24	194.0	119.56	407.48	222.04	287.92	276.94	239.12	366.00	628.30	569.74	484.34	428.22	376.98		
15	**Ammonia-N (mg/l)**	BDL (DL: 0.4)																			
16	**BOD (mg/l)**	BDL (DL: 1.0)																			
17	**Fluoride (mg/l)**	0.52	0.38	0.24	0.47	0.41	0.25	0.23	0.44	0.50	0.44	0.39	0.52	0.54	0.40	0.57	0.29	0.50	0.52	1	1.5
18	**P. Alkalinity (mg/l)**	BDL (DL:5.0)																			
19	**Total Alkalinity (mg/l)**	202	165	196	111	392	159	98	334	182	236	227	196	300	515	467	397	351	309	200	600
20	**Chloride (mg/l)**	90.3	87.4	501.2	425.4	240.9	171.0	38.9	829.5	99.1	155.4	39.8	16.5	642.0	217.6	74.8	127.2	35.0	203.0	250	1000
21	**Total Hardness as $CaCO_3$ (mg/l)**	190.2	278.4	371	360.8	339.2	157	121.6	592.2	194.1	194.1	170.6	105.9	490	358.8	303.9	331.4	292.2	545.1	200	600

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22	**Calcium Hardness as $CaCO_3$(mg/l)**	133.3	145.1	154.9	221.6	184.3	84.3	78.4	419.6	131.4	74.5	76.5	50.9	276.5	176.5	182.4	180.4	152.9	356.9		
23	**Magnesium Hardness as $CaCO_3$(mg/l)**	56.9	133.3	215.7	139.2	154.9	72.0	43.2	172.6	62.7	119.6	94.1	55.0	213.7	182.3	121.5	151.0	139.3	188.2		
24	**Calcium as Ca++ (mg/l)**	53.32	58.04	61.96	88.64	73.72	33.96	31.36	167.84	52.56	29.80	30.60	20.40	110.60	70.60	72.96	72.16	61.16	142.76	75	200
25	**Magnesium as Mg++ (mg/l)**	13.8	32.4	52.4	33.8	37.6	17.5	10.5	41.9	15.2	29.06	22.9	13.37	51.9	44.3	29.52	36.7	33.9	45.7	30	100
26	**TDS (mg/l)**	529	638	1297	1201	910	549	274	2129	473	509	384	269	1735	1047	673	689	434	1309	500	2000
27	**TSS (mg/l)**	BDL (DL:10.0)																			
28	**FDS / TFS (mg/l)**	269	359	822	998	540	279	122	1687	242	269	193	118	1330	794	266	393	236	828		
29	**Sodium (mg/l)**	60.82	102.80	335.70	273.80	209.80	169.80	20.39	485.70	67.20	112.08	32.93	36.88	393.40	202.50	100.90	105.40	12.98	128.50		
30	**Potassium (mg/l)**	11.63	11.48	16.33	12.94	35.25	6.31	0.74	7.84	8.95	4.47	3.44	2.01	5.02	12.20	10.84	11.87	11.84	11.30		
31	**Sulphate (mg/l)**	50.38	308.3	76.68	155.0	63.82	62.38	9.80	221.9	44.4	32.81	22.11	17.10	145.7	78.43	59.91	44.31	10.60	492.5	200	400
32	**Ortho phosphate (mg/l)**	BDL (DL: 0.05)			0.06	2.33	BDL (DL: 0.05)		0.42	0.47	0.27	0.23	0.18	0.27	BDL (DL: 0.05)	0.70	BDL (DL: 0.05)				
33	**% Sodium**	39.11	43.12	64.93	61.09	54.14	68.99	26.48	63.60	41.45	54.76	28.89	42.32	63.14	53.89	40.72	39.67	8.36	33.21		
34	**SAR**	1.91	2.67	7.55	6.25	4.94	5.88	0.80	8.66	2.09	3.48	1.09	1.55	7.70	4.63	2.51	2.51	0.33	2.39		
35	**Total Coliform MPN/100 ml**	40	94	84	110	110	110	140	70	84	94	84	170	120	63	350	140	110	70	Nil	Nil
36	**Faecal Coliform MPN/100 ml**	<1.8	<1.8	<1.8	<1.8	<1.8	14	33	<1.8	<1.8	<1.8	<1.8	46	23	<1.8	70	31	<1.8	<1.8	Nil	Nil

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37	**Faecal Streptococci MPN/100 ml**	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	94	<1.8	<1.8	<1.8	Nil	Nil
38	**Copper (mg/l)**	BDL (DL:0.02)																		0.05	1.5
39	**Nickel (mg/l)**	BDL (DL:0.005)																		0.02	NR
40	**Cadmium (mg/l)**	BDL (DL:0.001)																		0.003	NR
41	**Lead (mg/l)**	BDL (DL:0.005)																		0.01	NR
42	**Total Chromium (mg/l)**	BDL (DL:0.02)																		0.05	NR
43	**Iron (mg/l)**	BDL (DL:0.01)	0.067	BDL (DL:0.01)		0.26	BDL	0.19	0.68	0.13	0.048	0.44	0.35	0.048	BDL (DL: 0.05)		0.048	0.13	0.17	0.3	NR
44	**Zinc (mg/l)**	BDL (DL:0.05)																		5	15
45	**Arsenic (mg/l)**	BDL (DL:0.005)				0.009	BDL (DL:0.005)													0.01	0.05
46	**Mercury (mg/l)**	BDL (DL:0.0005)																		0.001	NR

BDL - Below Detection Limit DL - Detection Limit

NR - No Relaxation