

Ground Water Quality Data in Puducherry during Post- Monsoon 2024																					
Sl. No	Parameters	Muthirapalayam	Mettupalayam	Thengaithittu	Maruti school	Krishna nagar	Panithittu	Eachangadu	Bahour Borewell	Chetty koil	Pondicherry University	Chevaliar school	Kurumapet	Uruvaiyar	Sedarapet	Katterikuppam	Thirukanur	Madukarai	Kothapurinatham	Acceptable Limit (IS 10500 : 2012)	Permissible limit (IS 10500 : 2012)
	Station Code	1453	2010	1398	2012	1397	4633	3882	3883	1687	1454	3884	2009	2011	3885	1688	4631	4632	3886		
1	Latitude (N)	11.938128	11.943233	11.910344	11.967997	11.953022	11.829497	11.821469	11.813551	11.936917	12.017064	12.038022	11.930503	11.886886	11.990417	12.004731	11.991119	11.871408	11.9305		
2	Longitude (E)	79.779925	79.785456	79.817528	79.817231	79.820189	79.803069	79.796228	79.746173	79.831028	79.850761	78.865722	79.761528	79.748529	79.755278	79.700811	79.639742	79.603708	79.661694		
3	Dt.of Sampling	05.02.2024	05.02.2024	05.02.2024	06.02.2024	06.02.2024	06.02.2024	06.02.2024	06.02.2024	06.02.2024	06.02.2024	06.02.2024	05.02.2024	05.02.2024	07.02.2024	06.02.2024	06.02.2024	06.02.2024	07.02.2024		
4	Time	4.10 PM	4.45 PM	2.55 PM	10.45 AM	10.30 AM	1.00 PM	1.10 PM	1.35 PM	10.00 AM	11.50 AM	12.10 PM	3.55 PM	3.30 PM	11.00 AM	4.40 PM	4.00 PM	3.15 PM	12.00 PM		
5	Temperature °C	30.0	30.0	32.0	30.0	30.0	30.0	30.0	30.0	29.0	29.0	29.0	30.0	32.0	30.0	30.0	30.0	30.0	30.0		
6	pH	6.34	6.28	6.15	6.42	6.38	6.26	6.30	6.81	7.08	6.21	6.60	6.33	7.39	7.02	7.03	7.29	7.11	6.92	6.5 - 8.5	NR
7	Conductivity µmho/cm	840	1000	1897	1845	1123	1089	470	436	1929	476	814	583	2450	1389	919	978	1167	1191		
8	COD (mg/l)	BDL (DL : 5.0)																			
9	Turbidity NTU	BDL	1.4	12.8	BDL			31.2	BDL (DL:1.0)											1	5
10	Nitrate -N (mg/l)	3.14	0.54	BDL	1.15	4.49	BDL (DL:0.3)			1.01	1.33	3.05	2.63	BDL	0.98	0.48	2.29	3.86	1.87		
11	Nitrite-N (mg/l)	BDL (DL : 0.02)																			
12	Nitrate (mg/l)	13.92	2.40	BDL	5.10	19.89	BDL			4.48	5.9	13.5	11.66	BDL	4.36	2.14	10.14	17.09	8.27	45	NR
13	Ammonia-N (mg/l)	BDL (DL : 0.4)																			
14	BOD (mg/l)	BDL (DL : 1.0)																			
15	P. Alkalinity (mg/l)	BDL (DL : 5.0)																			
16	Total Alkalinity (mg/l)	136	116	150	152	94	156	140	122	276	62	98	110	222	250	284	254	362	322	200	600
17	Chloride (mg/l)	95.88	77.29	443.22	447.40	170.67	180.31	36.64	22.17	376.05	54.96	139.81	63.59	475.51	147.52	71.35	112.81	222.73	96.42	250	1000
18	Total Hardness as CaCO ₃ (mg/l)	204	272	460	374	306	224	174	98	472	110	208	154	472	476	368	298	376	286	200	600

Sl. No	Parameters	Muthirapalayam	Mettupalayam	Thengaitthitu	Maruti school	Krishna nagar	Panithittu	Eachangadu	Bahour Borewell	Chetty koil	Pondicherry University	Chevaliar school	Kurumapet	Uruvaiyar	Sedarapet	Katterikuppam	Thirukanur	Madukarai	Kothapurinatham	Acceptable Limit (IS 10500 : 2012)	Permissible limit (IS 10500 : 2012)
	Station Code	1453	2010	1398	2012	1397	4633	3882	3883	1687	1454	3884	2009	2011	3885	1688	4631	4632	3886		
19	Calcium Hardness as CaCO ₃ (mg/l)	146	202	242	188	214	140	92	56	268	76	128	118	262	384	202	168	252	188		
20	Magnesium Hardness as CaCO ₃ (mg/l)	58	70	218	186	92	84	82	42	204	34	80	36	210	92	166	130	124	98		
21	Calcium as Ca ⁺⁺ (mg/l)	58.4	80.8	97	75.2	85.6	56.0	36.8	22.4	107.2	30.4	51.2	47.2	104.8	153.6	80.8	67.2	100.8	75.2	75	200
22	Magnesium as Mg ⁺⁺ (mg/l)	14.094	17.01	52.974	45.198	22.356	20.412	19.926	10.206	49.572	8.262	19.44	8.748	51.03	22.356	40.338	31.590	30.13	23.814	30	100
23	TDS (mg/l)	462	688	1318	1022	666	536	226	150	1130	220	504	340	1342	858	550	580	972	634	500	2000
24	TSS (mg/l)	BDL						12.0	BDL (DL:10.0)												
25	FDS / TFS (mg/l)	338	482	868	742	434	422	105	18	784	88	322	238	756	666	314	250	750	468		
26	Sodium (mg/l)	81..23	111.53	245.70	304.50	100.01	112.60	43.0	48.01	258.60	28.11	74.61	51.12	351.70	106.53	25.56	99.54	285.0	117.35		
27	Potassium (mg/l)	3.96	4.05	4.87	13.78	7.56	4.08	3.10	1.72	34.41	BDL (DL:1.0)	3.47	6.99	3.98	BDL (DL:1.0)	3.18	3.33	2.51	5.93		
28	Sulphate (mg/l)	16.41	125.69	12.30	77.50	115.44	25.12	12.39	10.42	106.55	7.01	17.84	6.84	61.61	177.73	9.06	29.65	84.94	69.3	200	400
29	Ortho phosphate (mg/l)	0.21	0.13	0.15	BDL			0.07	BDL	2.2	BDL		0.35	0.29	BDL (DL:0.05)				0.64		
30	% Sodium	45.70	46.58	53.25	62.69	40.69	51.53	34.31	50.89	52.01	35.47	43.18	40.48	61.45	32.63	12.93	41.59	61.94	46.39		
31	SAR	2.5	2.9	5.0	6.8	2.5	3.3	1.4	2.1	5.2	1.2	2.2	1.8	7.0	2.1	0.6	2.5	6.4	3.00		
32	Total Coliform MPN/100 ml	130	<2	<2	1600	1600	<2	<2	<2	<2	500	1600	<2	7	<2	<2	1600	<2	90		
33	Faecal Coliform MPN/100 ml	130	<2	<2	1600	1600	<2	<2	<2	<2	300	1600	<2	7	<2	<2	1600	<2	8		

Sl. No	Parameters	Muthirapalayam	Mettupalayam	Thengaithittu	Maruti school	Krishna nagar	Panithittu	Eachangadu	Bahour Borewell	Chetty koil	Pondicherry University	Chevaliar school	Kurumapet	Uruvaiyar	Sedarapet	Katterikuppam	Thirukanur	Madukarai	Kothapurinatham	Acceptable Limit (IS 10500 : 2012)	Permissible limit (IS 10500 : 2012)
	Station Code	1453	2010	1398	2012	1397	4633	3882	3883	1687	1454	3884	2009	2011	3885	1688	4631	4632	3886		
50	op DDE µg/l	BDL																			
51	pp DDE µg/l	BDL																			
52	Dieldrin µg/l	BDL																			
53	Ethion µg/l	BDL																			
54	Endosulfan sulfate µg/l	BDL																			
55	pp DDT µg/l	BDL																			
56	Copper (mg/l)	BDL																		0.05	1.5
57	Nickel (mg/l)	BDL	0.009	0.008	0.007	BDL				0.009	BDL	0.006	BDL						0.02	NR	
58	Cadmium (mg/l)	BDL																		0.003	NR
59	Lead (mg/l)	BDL																		0.01	NR
60	Total Chromium (mg/l)	BDL																		0.05	NR
61	Iron (mg/l)	0.09	0.06	1.16	0.03	0.03	0.24	1.38	0.38	0.14	0.11	0.02	0.06	0.03	0.23	0.07	0.04	0.02	0.02	0.3	NR
62	Zinc (mg/l)	BDL																		5	15
63	Arsenic (mg/l)	BDL																		0.01	0.05
64	Mercury (mg/l)	BDL																			

BDL - Below Detection Limit DL - Detection Limit

NR - No Relaxation