

Ground Water Quality Data in Puducherry during Pre- Monsoon 2024																						
Sl. No	Parameters	Sedarapet	Katterikuppam	Thirukanur	Kothapurinatham	Madukarai	Bahour Borewell	Eachangadu	Panithittu	Chetty koil	Thengaithittu	Uruvaiyar	Kurumapet	Muthirapalayam	Mettupalayam	Chevaliar school	Pondicherry University	Krishna nagar	Maruti school	Acceptable Limit (IS 10500 : 2012)	Permissible limit (IS 10500 : 2012)	
Station Code		3885	1688	4631	3886	4632	3883	3882	4633	1687	1398	2011	2009	1453	2010	3884	1454	1397	2012			
1	Latitude (N)	11.990417	12.004731	11.991119	11.9305	11.871408	11.813551	11.821469	11.829497	11.936917	11.910344	11.886886	11.930503	11.938128	11.943233	12.038022	12.017064	11.953022	11.967997			
2	Longitude (E)	79.755278	79.700811	79.639742	79.661694	79.603708	79.746173	79.796228	79.803069	79.831028	79.817528	79.748529	79.761528	79.779925	79.785456	78.865722	79.850761	79.820189	79.817231			
3	Dt.of Sampling	02.09.2024	02.09.2024	02.09.2024	02.09.2024	02.09.2024	02.09.2024	02.09.2024	02.09.2024	03.09.2024	03.09.2024	03.09.2024	03.09.2024	03.09.2024	03.09.2024	03.09.2024	03.09.2024	03.09.2024	03.09.2024			
4	Time	10.30 A.M	11.15 A.M	11.45 A.M	12.40 P.M	01.15 P.M	02.30 P.M	03.15 P.M	03.45 P.M	10.40 A.M	11.15 A.M	12.10 P.M	01.00 P.M	01.50 P.M	02.15 P.M	03.00 P.M	03.45 P.M	04.10 P.M	04.30 P.M			
5	Temperature °C	29.0	29.0	29.0	29.5	29.0	29.5	29.0	30.0	30.0	32.0	32.0	30.0	32.0	32.0	30.0	30.0	30.0	30.0			
6	pH	6.65	6.88	6.46	6.81	6.84	6.73	6.06	6.00	6.78	6.89	7.07	6.19	6.21	6.15	6.11	5.39	6.16	6.46	6.5 - 8.5	NR	
7	Conductivity µmho/cm	1963	906	1136	1400	1699	472	574	1015	1971	3100	2370	636	923	1039	840	454	1125	1946			
8	COD (mg/l)	BDL (DL : 5.0)																				
9	Turbidity NTU	BDL (DL:1.0)													1.70	BDL (DL:1.0)				1	5	
10	Nitrate -N (mg/l)	2.1	1.4	4.09	4.22	6.34	BDL (DL:0.3)			1.89	BDL (DL:0.3)		3.0	3.03	0.47	4.51	1.61	3.54	1.22			
11	Nitrite-N (mg/l)	BDL(DL:0.02)																				
12	Nitrate (mg/l)	9.3	6.2	18.11	18.67	28.1	BDL			8.37	BDL		13.28	13.41	2.08	19.98	7.1	15.70	5.41	45	NR	
13	BOD (mg/l)	BDL (DL : 1.0)																				
14	P. Alkalinity (mg/l)	BDL (DL : 5.0)																				
15	Total Alkalinity (mg/l)	254	272	270	346	370	130	136	148	256	218	208	116	146	116	72	50	104	168	200	600	
16	Chloride (mg/l)	192.8	46.3	114.7	102.2	215.0	22.2	46.3	147.5	345.8	662.2	491.2	68.4	97.9	77.9	168.2	71.3	177.7	437.0	250	1000	
17	Total Hardness as CaCO ₃ (mg/l)	574	348	336	394	378	106	160	192	386	460	496	170	212	288	166	116	400	368	200	600	
18	Fluoride (mg/l)	0.74	BDL (DL:0.2)		0.58	0.49	0.92	0.46	0.29	0.3	0.7	0.43	0.36	0.3	0.76	BDL (DL:0.2)		0.75	0.52	1.0	1.5	

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Station Code		3885	1688	4631	3886	4632	3883	3882	4633	1687	1398	2011	2009	1453	2010	3884	1454	1397	2012		
19	Calcium Hardness as CaCO ₃ (mg/l)	438	146	226	220	220	64	100	122	274	302	308	154	162	216	92	90	310	246		
20	Magnesium Hardness as CaCO ₃ (mg/l)	136	202	110	174	158	42	60	70	112	158	188	16	50	72	74	26	90	122		
21	Calcium as Ca++ (mg/l)	175.2	58.4	90.4	88.0	88.0	25.6	40.0	48.8	109.6	120.8	123.2	61.6	64.8	86.4	36.8	36.0	160.0	98.4	75	200
22	Magnesium as Mg++ (mg/l)	33.0	49.1	26.7	42.3	38.4	10.2	14.6	17.0	27.2	38.4	45.7	3.9	12.2	17.5	18.0	6.3	21.9	29.6	30	100
23	TDS (mg/l)	981	453	568	736	859	241	290	532	1152	2106	1689	413	538	905	585	308	974	1425	500	2000
24	TSS (mg/l)	BDL(DL:10.0)						18.0	14.0	BDL(DL:10.0)											
25	FDS / TFS (mg/l)	620	223	305	379	508	118	129	271	596	1158	930	227	296	498	323	174	539	754		
26	Sodium (mg/l)	156.4	16.4	85.03	111.17	224	38.48	38.94	99.13	231.5	411.1	323.9	45.09	74.62	88.87	95.83	29.81	87.59	298.7		
27	Potassium (mg/l)	2.17	4.17	3.47	8.19	3	2.09	3.86	5	40.61	6.84	5.48	8.98	5.14	5.24	6.1	1.09	18.27	19.75		
28	Sulphate (mg/l)	72.20	12.19	38.60	97.70	93.09	18.40	24.73	29.80	74.11	192.35	164.87	30.89	58.95	105.75	54.0	22.81	109.41	74.60	200	400
29	Ortho phosphate (mg/l)	BDL (DL:0.05)		0.33	0.53	0.08	0.1	0.56	BDL	3.05	0.37	0.3	0.33	0.16	BDL				0.27		
30	% Sodium	37.03	9.1	35.11	37.27	55.92	43.38	33.8	51.96	53.39	65.5	58.21	35.03	42.51	39.52	54.37	35.52	27.01	62.2		
31	SAR	2.8	0.4	2	2.4	5	1.6	1.3	3.1	5.1	8.3	6.3	1.5	2.2	2.3	3.2	1.2	1.7	6.8		
32	Total Coliform MPN/100 ml	BDL (DL:<1.8)																		Nil	Nil
33	Faecal Coliform MPN/100 ml	BDL (DL:<1.8)																		Nil	Nil

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Station Code		3885	1688	4631	3886	4632	3883	3882	4633	1687	1398	2011	2009	1453	2010	3884	1454	1397	2012		
34	Faecal Streptococci MPN/100 ml	BDL																		Nil	Nil
35	Alpha HCH µg/l	BDL																			
36	Gamma HCH µg/l	BDL																			
37	Detla HCH µg/l	BDL																			
38	Methyl Parathion µg/l	BDL																			
39	Alachor µg/l	BDL																			
40	Aldrin µg/l	BDL																			
41	Malathion µg/l	BDL																			
42	Chlorpyrifos µg/l	BDL																			
43	Alpha Endosulfan µg/l	BDL																			
44	Butachlor µg/l	BDL																			
45	Beta Endosulfan µg/l	BDL																			
46	Phorate µg/l	BDL																			
47	op DDT µg/l	BDL																			
48	op DDD µg/l	BDL																			

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Station Code		3885	1688	4631	3886	4632	3883	3882	4633	1687	1398	2011	2009	1453	2010	3884	1454	1397	2012		
49	pp DDD µg/l	BDL																			
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 (DL:0.02)																		0.05	1.5
57	Nickel (mg/l)	BDL (DL:0.005)																		0.02	NR
58	Cadmium (mg/l)	BDL (DL : 0.001)																		0.003	NR
59	Lead (mg/l)	BDL (DL : 0.005)																		0.01	NR
60	Total Chromium (mg/l)	BDL (DL:0.02)																		0.05	NR
61	Iron (mg/l)	BDL					0.19	0.20	0.06	0.06	0.47	0.17	BDL		0.79	0.02	BDL	0.28	0.05	0.3	NR
62	Zinc (mg/l)	BDL (DL : 0.01)																		5	15
63	Arsenic (mg/l)	BDL (DL : 0.005)																		0.01	0.05
64	Mercury (mg/l)	BDQ(LOQ:0.0005)																		0.001	NR

BDL - Below Detection Limit DL - Detection Limit
NR - No Relaxation