

Ground Water Quality Data in Puducherry during Pre Monsoon 2020																				
Sl.No	Parameters	Chetty koil	Krishna nagar	Maruti school	Chevaliar school	Kurumapet	Madukarai	Kothapurinatham	Thirukanur	Katterikuppam	Sedarapet	Mettupalayam	Panithittu	Eachangadu	Bahour Borewell	Uruvaiyar	Thengaitthitu	Muthirapalayam	Acceptable Limit (IS 10500 : 2012)	Permissible limit (IS 10500 : 2012)
	Station Code	1687	1397	2012	3884	2009	4632	3886	4631	1688	3885	2010	4633	3882	3883	2011	1398	1453		
1	Dt.of Sampling	14.09.2020	14.09.2020	14.09.2020	14.09.2020	14.09.2020	14.09.2020	14.09.2020	14.09.2020	14.09.2020	14.09.2020	21.09.2020	21.09.2020	21.09.2020	21.09.2020	21.09.2020	21.09.2020	21.09.2020		
2	Time	9.45 A.M	10.00 A.M	10.30 A.M	11.00 A.M	11.35 A.M	12.30 P.M	01.30 P.M	03.00 P.M	03.30 P.M	04.30 P.M	09.50 A.M	11.10 A.M	11.30 A.M	12.15 P.M	01.10 P.M	02.30 P.M	03.50 P.M		
3	Latitude	11° 56'12.9" N	11° 57'10.88" N	11° 58'04.79" N	12° 02'16.88" N	11° 55'49.81" N	11° 52' 17.07"N	11° 55'49.8" N	11° 59' 28.03"N	12° 00'17.03" N	11° 59'25.5" N	11° 56'35.64" N	11° 49' 46.19"N	11° 49'17.29" N	11° 49'47.8" N	11°53'29.45" N	11° 54'37.24" N	11° 56'17.26" N		
4	Longitude	79° 49' 51.7" E	79° 49' 12.68" E	79° 49'02.03" E	79° 51'56.60" E	79° 45' 41.50" E	79° 36' 13.35"E	79° 39'42.1" E	79° 38' 23.07"E	79° 42' 02.92" E	79° 45'19.0" E	79° 47' 07.64" E	79° 48' 11.05"E	79° 47'46.42" E	79° 44' 35.3" E	79° 45'06.95" E	79° 49' 03.10" E	79° 46' 47.73" E		
5	Temperature °C	31.0	30.0	30.0	31.0	31.5	30.0	31.0	31.0	30.0	31.0	30.0	32.0	33.0	32.0	32.0	32.0	31.0		
6	pH	7.83	7.13	7.40	6.97	6.88	7.84	7.56	6.99	7.45	6.94	6.41	6.45	6.60	7.71	7.44	6.35	6.54	6.5 - 8.5	NR
7	Conductivity µmho/cm	2070	620	2430	1252	682	1652	1389	1130	759	1849	1075	714	432	364	1804	1329	815		
8	COD (mg/l)	BDL (DL - 5)																		
9	Turbidity NTU	BDL (DL - 1)		2.6	BDL (DL - 1)							3.7	BDL (DL - 1)				1.2	2.6	1	5
10	Nitrate -N (mg/l)	0.9	4.2	0.6	3.5	3.1	4.1	3.1	1.8	0.4	3.9	1.3	BDL (DL - 0.3)					1.2		
11	Nitrite-N (mg/l)	BDL (DL - 0.02)		0.020	BDL (DL - 0.02)															
12	Nitrate (mg/l)	4.1	18.8	2.6	15.6	13.5	18.1	13.7	7.9	1.9	17.4	5.7	BDL (DL - 1.0)					5.2	45	NR
13	Ammonia (NH3-N) mg/L	BDL (DL - 0.4)		2.3	BDL (DL - 0.4)															
14	Bi- Carbonate as CaCO ₃ (mg/l)	414.7	86.4	259.2	121.0	151.2	494.6	481.7	371.5	384.5	360.7	147.8	181.2	165.5	149.7	269.9	191.1	212.8	200	600

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Station Code		1687	1397	2012	3884	2009	4632	3886	4631	1688	3885	2010	4633	3882	3883	2011	1398	1453		
15	Carbonate as CaCO ₃ (mg/l)	BDL (DL - 5)																		
16	Chloride (mg/l)	415.2	77.9	595.7	242.3	94.1	232.8	134.9	141.5	34.2	233.7	83.0	106.0	39.0	23.0	395.0	313.9	108.0	250	1000
17	Total Hardness (mg/l)	415.8	168.3	398.0	265.3	203.9	360.1	421.7	340.6	344.5	491.0	263.3	174.2	144.5	99.0	374.2	336.6	223.7	200	600
18	Calcium hardness (mg/l)	289.1	118.8	299.0	146.5	154.4	263.3	257.4	221.8	182.2	267.3	146.5	106.9	95.0	51.5	223.7	192.1	128.7		
19	Magnesium hardness (mg/l)	126.7	49.5	99.0	118.8	49.5	96.8	164.3	118.8	162.3	223.7	116.8	67.3	49.5	47.5	150.5	144.5	95.0		
20	Calcium as Ca ⁺⁺ (mg/l)	115.6	47.5	119.6	58.6	61.8	105.3	103.0	88.7	72.9	106.9	58.6	42.8	38.0	20.6	89.5	76.8	51.5	75	200
21	Magnesium as Mg ⁺⁺ (mg/l)	30.8	12.0	24.1	28.9	12.0	23.5	39.9	28.9	39.4	54.3	28.4	16.4	12.0	11.5	36.6	35.1	23.1	30	100
22	TDS (mg/l)	1255	489	1521	871	447	1026	934	691	454	1361	762	375	234	192	1080	894	524	500	2000
23	TSS (mg/l)	BDL (DL - 10)																		
24	FDS / TFS (mg/l)	931	239	1006	540	279	879	641	448	334	914	543	161	117	26	660	415	280		
25	Sodium (mg/l)	262.7	44.8	371.9	153.0	53.5	244.5	149.3	102.3	23.5	136.3	113.7	81.3	38.4	42.6	270.1	155.7	92.4		
26	Potassium (mg/l)	42.2	6.2	16.0	4.3	6.7	3.3	6.6	3.4	4.1	1.2	4.0	3.6	3.1	1.7	3.4	4.3	3.3		
27	Hexavalent Chromium (mg/l)	BDL																		

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	Station Code	1687	1397	2012	3884	2009	4632	3886	4631	1688	3885	2010	4633	3882	3883	2011	1398	1453		
28	Sulphate (mg/l)	128.9	116.1	107.4	101.8	14.3	84.3	85.3	35.0	5.97	372.1	294.3	21.8	22.7	17.3	113.4	28.0	38.4	200	400
29	Ortho phosphate (mg/l)	1.5	BDL (DL - 0.5)											0.6	BDL (DL-0.5)	0.8	BDL (DL - 0.5)			
30	% Sodium	54.8	35.5	65.8	55.0	35.3	59.3	42.9	39.1	12.7	37.4	47.8	49.6	35.9	47.7	60.8	49.6	46.7		
31	SAR	5.6	1.5	8.1	4.1	1.6	5.6	3.2	2.4	0.5	2.7	3.0	2.7	1.4	1.9	6.1	3.7	2.7		
32	Copper mg/L	BDL(DL - 0.01)	0.042	0.037	BDL (DL - 0.01)		0.011	BDL (DL - 0.01)			0.038	BDL (DL - 0.01)						0.2	0.05	1.5
33	Nickel mg/L	BDL (DL - 0.01)										0.04	BDL (DL - 0.01)			0.029	0.029	0.031	0.02	NR
34	Cadmium mg/L	BDL (DL - 0.001)																	0.003	NR
35	Lead mg/L	BDL (DL - 0.005)																	0.01	NR
36	Total Chromium mg/L	0.036	0.027	0.036	BDL(DL - 0.01)	0.027	0.054	0.046	0.046	0.041	0.038	BDL (DL - 0.01)						0.05	NR	
37	Iron mg/L	0.02	BDL(DL - 0.02)	0.90	0.04	BDL(DL - 0.02)	0.03	1.44	BDL(DL - 0.02)	0.04	0.31	BDL (DL - 0.02)		0.46	0.09	0.07	1.48	1.28	0.3	NR
38	Zinc mg/L	BDL(DL - 0.1)	0.2	BDL (DL - 0.1)							0.334	BDL (DL - 0.1)						5	15	
39	Arsenic mg/L	BDL (DL - 0.005)																	0.01	0.05
40	Mercury mg/L	BDL (DL - 0.0005)																	0.001	NR

BDL - Below Detection Limit

DL - Detection Limit

NR - No Relaxation