

**DEPARTMENT OF SCIENCE, TECHNOLOGY AND ENVIRONMENT
PUDUCHERRY POLLUTION CONTROL COMMITTEE
ENVIRONMENTAL ANALYTICAL LABORATORY**

STATUS OF SEA WATER QUALITY ON THE OCCASION OF VINAYAGAR CHATURTHI FESTIVAL, 2023 - PUDUCHERRY

Sl.No	Parameter	Pre Immersion		During Immersion		Post Immersion					
		Sample - I	Sample- II	Sample - I	Sample- II	Sample - I	Sample- II	Sample - I	Sample- II	Sample - I	Sample- II
		Old Harbour (Ref. Pt.)	Old Court (Imm. Pt.)	Old Harbour (Ref. Pt.)	Old Court (Imm. Pt.)	Old Harbour (Ref. Pt.)	Old Court (Imm. Pt.)	Old Harbour (Ref. Pt.)	Old Court (Imm. Pt.)	Old Harbour (Ref. Pt.)	Old Court (Imm. Pt.)
1	Dt .of Sampling	13.09.2023	13.09.2023	22.09.2023	22.09.2023	24.09.2023	24.09.2023	26.09.2023	26.09.2023	29.09.2023	29.09.2023
2	Latitude	11° 55' 34 26 66"N	11° 92' 83 56 21"N	11° 55' 34 26 66"N	11° 92' 83 56 21"N	11° 55' 34 26 66"N	11° 92' 83 56 21"N	11° 55' 34 26 66"N	11° 92' 83 56 21"N	11° 55' 34 26 66"N	11° 92' 83 56 21"N
3	Longitude	79° 50' 41 40 26"E	79° 83' 54 35 45"E	79° 50' 41 40 26"E	79° 83' 54 35 45"E	79° 50' 41 40 26"E	79° 83' 54 35 45"E	79° 50' 41 40 26"E	79° 83' 54 35 45"E	79° 50' 41 40 26"E	79° 83' 54 35 45"E
4	Time	11.00 A.M	11.30 A.M	6.30 P.M	9.15 P.M	11.15 A.M	11.45 A.M	3.50 P.M	4.45 P.M	10.30 A.M	11.00 A.M
5	Temperature °C	28.0	28.0	30.0	30.0	31.0	31.0	30.0	30.0	30.0	30.0
6	pH	7.74	7.80	7.76	7.74	7.83	7.87	7.82	7.84	7.80	7.84
7	Conductivity mS/cm	52.5	51.2	51.6	51.4	52.0	51.8	50.4	51.0	52.1	52.1
8	Turbidity NTU	3.7	3.5	4.1	4.3	3.7	3.9	4.8	4.9	4.1	4.3
9	DO mg/l	6.1	6.2	6.1	6.2	6.2	6.3	6.2	6.3	6.2	6.1
10	BOD mg/l	1.1	1.8	BDL (DL: 1.0)		1.2	1.3	2.0	2.4	1.1	1.2
11	TSS mg/l	32.0	28.0	37.0	18.0	9.0	13.0	18.0	19.0	21.0	17.0
12	Chloride mg/l	20301	19232	19329	20494	20786	21077	18163	16609	19232	18066
13	Total Hardness mg/l	6280	6220	5600	5740	5680	5680	5340	5640	5700	5740
14	TDS mg/l	39746	38244	39980	38638	40620	40018	37126	37894	38390	38484
15	T. Alkalinity mg/l	116	116	116	116	122	130	124	122	120	122
16	Total solids mg/l	39778	38272	40017	38656	40629	40031	37144	37913	38411	38501

Ref. Pt. - Reference point; Imm. Pt. - Immersion point
BDL - Below Detection Limit; DL - Detectable Limit

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STATUS OF SEA WATER QUALITY ON THE OCCASION OF VINAYAGAR CHATURTHI FESTIVAL, 2023 - PUDUCHERRY

Sl. No.	Parameter	Pre Immersion		During Immersion		Post Immersion					
		Sample - I	Sample- II	Sample - I	Sample- II	Sample - I	Sample- II	Sample - I	Sample- II	Sample - I	Sample- II
		Old Harbour (Ref. Pt.)	Old Court (Imm. Pt.)	Old Harbour (Ref. Pt.)	Old Court (Imm. Pt.)	Old Harbour (Ref. Pt.)	Old Court (Imm. Pt.)	Old Harbour (Ref. Pt.)	Old Court (Imm. Pt.)	Old Harbour (Ref. Pt.)	Old Court (Imm. Pt.)
1	Dt .of Sampling	13.09.2023	13.09.2023	22.09.2023	22.09.2023	24.09.2023	24.09.2023	26.09.2023	26.09.2023	29.09.2023	29.09.2023
2	Latitude	11° 55' 34 26 66"N	11° 92' 83 56 21"N	11° 55' 34 26 66"N	11° 92' 83 56 21"N	11° 55' 34 26 66"N	11° 92' 83 56 21"N	11° 55' 34 26 66"N	11° 92' 83 56 21"N	11° 55' 34 26 66"N	11° 92' 83 56 21"N
3	Longitude	79° 50' 41 40 26"E	79° 83' 54 35 45"E	79° 50' 41 40 26"E	79° 83' 54 35 45"E	79° 50' 41 40 26"E	79° 83' 54 35 45"E	79° 50' 41 40 26"E	79° 83' 54 35 45"E	79° 50' 41 40 26"E	79° 83' 54 35 45"E
4	Time	11.00 A.M	11.30 A.M	6.30 P.M	9.15 P.M	11.15 A.M	11.45 A.M	3.50 P.M	4.45 P.M	10.30 A.M	11.00 A.M
5	Chromium mg/l	BDL (DL: 0.01)									
6	Lead mg/l	BDL (DL: 0.05)									
7	Zinc mg/l	0.132	0.178	0.089	0.170	BDL (DL: 0.01)	0.096	0.041	0.042	0.089	0.028
8	Copper mg/l	BDL (DL: 0.01)						0.046	0.065	BDL (DL: 0.01)	
9	Cadmium mg/l	BDL (DL: 0.001)									
10	Mercury mg/l	BDL	0.007	BDL (DL: 0.005)							
11	Antimony mg/l	BDL (DL: 0.002)									
12	Barium mg/l	BDL	0.738	BDL	0.112	BDL	0.092	0.175	BDL (DL: 0.01)		
13	Cobalt mg/l	BDL (DL: 0.01)									
14	Manganese mg/l	0.024	0.022	BDL (DL: 0.05)	0.024	BDL	0.018	0.019	0.011	BDL	0.023
15	Strontium mg/l	8.15	8.39	7.38	8.32	6.37	7.32	13.20	9.17	7.38	8.9

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STATUS OF SEDIMENT SAMPLE QUALITY ON THE OCCASION OF VINAYAGAR CHATURTHI FESTIVAL, 2023 - PUDUCHERRY

Sl. No.	Parameter	Pre Immersion		During Immersion		Post Immersion					
						Sample - I	Sample- II	Sample - I	Sample- II	Sample - I	Sample- II
		Old Harbour (Ref. Pt.)	Old Court (Imm. Pt.)	Old Harbour (Ref. Pt.)	Old Court (Imm. Pt.)	Old Harbour (Ref. Pt.)	Old Court (Imm. Pt.)	Old Harbour (Ref. Pt.)	Old Court (Imm. Pt.)	Old Harbour (Ref. Pt.)	Old Court (Imm. Pt.)
1	Dt. of Sampling	13.09.2023	13.09.2023	22.09.2023	22.09.2023	24.09.2023	24.09.2023	26.09.2023	26.09.2023	29.09.2023	29.09.2023
2	Latitude	11° 55' 34 26 66°N	11° 92' 83 56 21°N	11° 55' 34 26 66°N	11° 92' 83 56 21°N	11° 55' 34 26 66°N	11° 92' 83 56 21°N	11° 55' 34 26 66°N	11° 92' 83 56 21°N	11° 55' 34 26 66°N	11° 92' 83 56 21°N
3	Longitude	79° 50' 41 40 26°E	79° 83' 54 35 45°E	79° 50' 41 40 26°E	79° 83' 54 35 45°E	79° 50' 41 40 26°E	79° 83' 54 35 45°E	79° 50' 41 40 26°E	79° 83' 54 35 45°E	79° 50' 41 40 26°E	79° 83' 54 35 45°E
4	Time	11.00 A.M	11.30 A.M	6.30 P.M	9.15 P.M	11.15 A.M	11.45 A.M	3.50 P.M	4.45 P.M	10.30 A.M	11.00 A.M
5	Chromium mg/kg	10.7	8.28	8.16	6.41	8.92	11.9	12.3	13.7	21.7	21.1
6	Lead mg/kg	BDL (DL: 0.1)									
7	Zinc mg/kg	22.5	21.3	20.8	12.7	8.76	8.53	12.0	17.3	13.8	20.0
8	Copper mg/kg	16.3	7.4	9.3	6.73	7.04	5.91	17.2	15.8	17.5	18.2
9	Cadmium mg/kg	BDL (DL: 1.0)									
10	Mercury mg/kg	BDL (DL: 1.0)									
11	Antimony mg/kg	BDL (DL: 1.0)									
12	Barium mg/kg	26	22	14.4	7.17	14.6	12.7	18.5	23.4	16.7	27.7
13	Cobalt mg/kg	BDL (DL:0.1)									
14	Manganese mg/kg	46.8	33.4	34.3	24.2	27.9	28.9	45.5	47.4	35.4	49.1
15	Strontium mg/kg	39.4	28.7	36.1	21.9	18.9	18.7	27.3	26.2	13.8	17.5

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