

**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, 2022 - PUDUCHERRY

S.No	Parameter	Pre Immersion		During Immersion		Post Immersion							
		Sample - I	Sample - II	Sample - I	Sample - II	3 rd Day		5 th Day		7 th Day		9 th Day	
						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.)	Old Harbour (Ref. Pt.)	Old Court (Imm. Pt.)
1	Dt .of Sampling	29.08.2022	29.08.2022	04.09.2022	04.09.2022	06.09.2024	06.09.2022	08.09.2022	08.09.2022	10.09.2022	10.09.2022	12.09.2022	12.09.2022
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	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	79° 50' 41 40 26"E	79° 83' 54 35 45"E
4	Time	10:25 AM	11:15 AM	6:00 PM	9:00 PM	10:00 AM	10:30 AM	10:30 AM	11:15 AM	10:00 AM	11:00 AM	10:30 AM	11:30 AM
5	Temperature °C	28°C	28°C	30°C	30°C	31°C	31°C	30°C	30°C	30°C	30°C	31°C	31°C
6	pH	8.16	8.16	8.16	8.16	8.10	8.10	8.08	8.13	8.12	8.18	8.15	8.16
7	Conductivity mS/cm	66.4	66.4	66.8	66.8	67.0	67.0	68.2	68.5	67.8	69.1	67.8	67.8
8	Turbidity mg/l	1.6	1.5	2.2	1.6	2.8	2.9	1.1	1.5	7.1	4	6.2	5.1
9	DO mg/l	6.1	6.1	6.0	6.0	6.0	6.1	6.2	6.1	6.2	6.3	6.1	6.1
10	BOD mg/l	BDL (DL - 1.0)		1.1	1.1	BDL (DL - 1.0)							
11	TSS mg/l	10.0	24.0	15.0	14.0	21.0	25.0	6.0	11.0	32.0	16.0	29.0	15.0
12	Chloride mg/l	14790.0	15087.5	16675.7	16774.9	17966.1	17966.1	16477.2	16973.5	19752.4	21241.6	19554.2	19752.74
13	Total Hardness mg/l	6040.0	6060.0	5820.0	6020.0	5960.0	5820.0	5980.0	5920.0	6520.0	6420.0	6460.0	6380.00
14	TDS mg/l	37450.0	37919.0	36110.0	36438.0	39662.0	39678.0	41552.0	41707	38650.0	38390.0	38360.0	38928.0
15	T. Alkalinity mg/l	126.1	126.1	132.0	130.0	116.0	112.0	102.0	120.0	120.0	130.0	126.0	122.0

Ref. Pt. - Reference point; Imm. Pt. - Immersion point

BDL - Below Detection Limit; DL - Detectable Limit

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, 2022 - PUDUCHERRY													
Sl. No.	Parameter	Pre Immersion		During Immersion		Post Immersion							
		Sample - I	Sample - II	Sample - I	Sample - II	3 rd Day		5 th Day		7 th Day		9 th Day	
		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.)	Old Harbour (Ref. Pt.)	Old Court (Imm. Pt.)
1	Dt .of Sampling	29.08.2022	29.08.2022	04.09.2022	04.09.2023	06.09.2022	06.09.2022	08.09.2022	08.09.2022	10.09.2022	10.09.2022	12.09.2022	12.09.2022
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	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	79° 50' 41 40 26"E	79° 83' 54 35 45"E
4	Time	10:25 AM	11:15 AM	6.00 PM	9.00 PM	10.00 AM	10:30 AM	10:30 AM	11:15 AM	10:00 AM	11:00 AM	10:30 AM	11:30 AM
5	Chromium mg/l	BDL (DL - 0.01)											
6	Lead mg/l	BDL (DL - 0.005)											
7	Zinc mg/l	BDL (DL - 0.01)											
8	Copper mg/l	BDL (DL - 0.01)											
9	Cadmium mg/l	BDL (DL - 0.001)											
10	Mercury mg/l	BDL (DL - 0.0005)											
11	Antimony mg/l	BDL (DL - 0.002)											
12	Barium mg/l	BDL (DL - 0.01)											
13	Cobalt mg/l	BDL (DL - 0.01)											
14	Manganese mg/l	BDL (DL - 0.05)		0.092	0.069	0.217	0.052	BDL (DL - 0.05)		0.066	BDL (DL - 0.05)	0.078	0.091
15	Strontium mg/l	0.521	0.358	1.65	1.71	1.36	1.21	1.01	1.01	0.871	0.767	0.692	0.633

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

DEPARTMENT OF SCIENCE, TECHNOLOGY AND ENVIRONMENT PUDUCHERRY POLLUTION CONTROL COMMITTEE ENVIRONMENTAL ANALYTICAL LABORATORY													
STATUS OF SEDIMENT SAMPLE QUALITY ON THE OCCASION OF VINAYAGAR CHATURTHI FESTIVAL, 2022 - PUDUCHERRY													
Sl. No .	Parameter	Pre Immersion		During Immersion		Post Immersion							
		Sample - I	Sample - II	Sample - I	Sample - II	3 rd Day		5 th Day		7 th Day		9 th Day	
						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.)	Old Harbour (Ref. Pt.)	Old Court (Imm. Pt.)
1	Dt .of Sampling	29.08.2022	29.08.2022	04.09.2022	04.09.2023	06.09.2022	06.09.2022	08.09.2022	08.09.2022	10.09.2022	10.09.2022	12.09.2022	12.09.2022
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	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	79° 50' 41 40 26"E	79° 83' 54 35 45"E
4	Time	10:25 AM	11:15 AM	6.00 PM	9.00 PM	10.00 AM	10:30 AM	10:30 AM	11:15 AM	10:00 AM	11:00 AM	10:30 AM	11:30 AM
5	Chromium mg/kg	6.85	6.37	6.98	7.66	6.50	9.23	8.68	8.66	5.48	6.73	5.64	9.20
6	Lead mg/kg	BDL (DL - 0.1)											
7	Zinc mg/kg	8.95	12.33	6.78	8.97	45.7	20.3	16.2	22.8	7.96	10.6	9.16	10.4
8	Copper mg/kg	7.34	2.43	4.15	5.31	BDL (DL - 1.0)			11.1	2.95	4.18	3.38	3.96
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	45.1	28	12.0	25.60	11.4	13.5	26.4	32.3	69.8	22.7	12.0	13.2
13	Cobalt mg/kg	BDL (DL - 0.1)											
14	Manganese mg/kg	23.3	24.2	22.80	29.8	27.4	26.1	31.2	55.5	19.6	19.9	15.6	35.2
15	Strontium mg/kg	13.4	38.5	10.6	17.8	15.1	12.9	46.4	42.7	8.67	12	7.63	16.4

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

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 2022 - KARAIKAL													
S.No	Parameter	Pre Immersion		During Immersion		Post Immersion							
		Sample - I	Sample - II	Sample - I	Sample - II	3 rd Day		5 th Day		7 th Day		9 th Day	
						Sample - I	Sample- II	Sample - I	Sample- II	Sample - I	Sample- II	Sample - I	Sample- II
		Kilinjalmedu (Ref. Pt.)	Kilinjalmedu (Imm. Pt.)	Kilinjalmedu (Ref. Pt.)	Kilinjalmedu (Imm. Pt.)	Kilinjalmedu (Ref. Pt.)	Kilinjalmedu (Imm. Pt.)	Kilinjalmedu (Ref. Pt.)	Kilinjalmedu (Imm. Pt.)	Kilinjalmedu (Ref. Pt.)	Kilinjalmedu (Imm. Pt.)	Kilinjalmedu (Ref. Pt.)	Kilinjalmedu (Imm. Pt.)
1	Dt .of Sampling	29.08.2022	29.08.2022	02.09.2022	02.09.2022	04.09.2022	04.09.2022	06.09.2022	06.09.2022	08.09.2022	08.09.2022	10.09.2022	10.09.2022
2	Latitude	10°56'29"N	10°56'40"N	10°56'29"N	10°56'40"N	10°56'29"N	10°56'40"N	10°56'29"N	10°56'40"N	10°56'29"N	10°56'40"N	10°56'29"N	10°56'40"N
3	Longitude	79°51' 13"E	79°51' 12"E	79°51' 13"E	79°51' 12"E	79°51' 13"E	79°51' 12"E	79°51' 13"E	79°51' 12"E	79°51' 13"E	79°51' 12"E	79°51' 13"E	79°51' 12"E
4	Time	5:00 PM	5:15 PM	9:30 PM	9:45 PM	11:00 AM	11:15 AM	9:30 AM	9:45 AM	9:45 AM	10:00 AM	9:30 AM	9:45 AM
5	Temperature °C	32°C	32.5°C	28.2°C	28.5°C	28.3°C	28.3°C	29.6°C	29.4°C	29.6°C	29.5°C	30°C	30.5°C
6	pH	8.15	8.15	8.04	8.04	8.12	8.14	8.13	8.14	8.1	8.14	8.00	8.06
7	Conductivity mS/cm	65.8	65.7	66.4	64.7	67.1	66.9	68.0	68.0	68.0	68.0	68.3	68.6
8	Turbidity mg/l	2.1	2.2	3.2	3.1	3.3	2.9	3.5	3.1	2.1	2	7.1	1.5
9	DO mg/l	6.8	6.9	6.3	6.3	6.2	6.2	6.3	6.3	6.2	6.2	6.1	6.1
10	BOD mg/l	BDL (DL - 1.0)	1.2	BDL (DL - 1.0)									
11	TSS mg/l	21.0	25.0	15.0	16.0	23.0	22.0	9.0	12.0	4.0	8.0	28.0	30.0
12	Chloride mg/l	19951.3	19554.2	15683.1	15484.6	15980.9	15980.9	16378.0	17072.7	16973.5	17072.7	20844.6	21043.1
13	Total Hardness mg/l	6040.0	6020.0	5780.0	6240.0	5820.0	6000.0	5980.0	5880.0	5920.0	5980.0	6400.0	6020.0
14	TDS mg/l	39948	39095	40615	38237	41424	40756	41901	41864	41918	41929	38882.0	38675.0
15	T. Alkalinity mg/l	126.0	126.0	112.0	116.0	118.0	118.0	120.0	120.0	124.0	120.0	120.0	118.0

Ref. Pt. - Reference point; Imm. Pt. - Immersion point

BDL - Below Detection Limit; DL - Detectable Limit

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 2022 - KARAIKAL													
Sl. No.	Parameter	Pre Immersion		During Immersion		Post Immersion							
		Sample - I	Sample - II	Sample - I	Sample - II	3 rd Day		5 th Day		7 th Day		9 th Day	
		Kilinjalmadu (Ref. Pt.)	Kilinjalmadu (Imm. Pt.)	Kilinjalmadu (Ref. Pt.)	Kilinjalmadu (Imm. Pt.)	Sample - I	Sample- II	Sample - I	Sample- II	Sample - I	Sample- II	Sample - I	Sample- II
1	Dt .of Sampling	29.08.2022	29.08.2022	02.09.2022	02.09.2022	04.09.2022	04.09.2022	06.09.2022	06.09.2022	08.09.2022	08.09.2022	10.09.2022	10.09.2022
2	Latitude	10°56'29"N	10°56'40"N	10°56'29"N	10°56'40"N	10°56'29"N	10°56'40"N	10°56'29"N	10°56'40"N	10°56'29"N	10°56'40"N	10°56'29"N	10°56'40"N
3	Longitude	79°51' 13"E	79°51' 12"E	79°51' 13"E	79°51' 12"E	79°51' 13"E	79°51' 12"E	79°51' 13"E	79°51' 12"E	79°51' 13"E	79°51' 12"E	79°51' 13"E	79°51' 12"E
4	Time	5:00 PM	5:15 PM	9:30 PM	9:45 PM	11:00 AM	11:15 AM	9:30 AM	9:45 AM	9:45 AM	10:00 AM	9:30 AM	9:45 AM
5	Chromium mg/l	BDL (DL - 0.01)											
6	Lead mg/l	BDL (DL - 0.005)											
7	Zinc mg/l	BDL (DL - 0.01)											
8	Copper mg/l	BDL (DL - 0.01)											
9	Cadmium mg/l	BDL (DL - 0.001)											
10	Mercury mg/l	BDL (DL - 0.0005)											
11	Antimony mg/l	BDL (DL - 0.002)											
12	Barium mg/l	BDL (DL -0.01)											
13	Cobalt mg/l	BDL (DL - 0.01)											
14	Manganese mg/l	BDL (DL - 0.05)											
15	Strontium mg/l	0.413	0.621	1.75	1.69	1.58	1.48	0.999	0.998	0.980	0.940	0.543	0.482

Ref. Pt. - Reference point; Imm. Pt. - Immersion point

BDL - Below Detection Limit; DL - Detectable Limit