

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, 2024 - 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	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
2	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
3	Dt .of Sampling	29.08.2024	29.08.2024	11.09.2024	11.09.2024	13.09.2024	13.09.2024	15.09.2024	15.09.2024	17.09.2024	17.09.2024
4	Time	11.30 A.M	12.00 Noon	06.00 P.M	09.45 P.M	11.00 A.M	11.45 A.M	11.00 A.M	11.45 A.M	11.00 A.M	11.45 A.M
5	Temperature °C	29.0	29.0	29.0	29.0	30.0	30.0	30.0	30.0	30.0	30.0
6	pH	7.83	7.91	7.86	7.8	7.78	7.85	7.80	7.83	7.85	7.84
7	Conductivity mS/cm	52.3	52.3	53.1	52.8	53.0	53.0	52.8	52.8	53.0	52.8
8	Turbidity NTU	4.0	4.2	4.1	4.9	3.5	3.6	3.0	3.3	2.7	2.7
9	DO mg/l	6.3	6.4	6.2	6.1	6.1	6.2	6.3	6.2	6.1	5.8
10	BOD mg/l	2.6	3.0	1.1	1.0	1.5	1.4	BDL	BDL	BDL	BDL
11	TSS mg/l	277.0	254.0	206	218.0	206.0	209.0	208.0	212.0	197.0	201.0
12	Chloride mg/l	18526	18811	22420	21945	20900	21755	24890	22895	23560	22040
13	Total Hardness mg/l	6480	6600	6560	6640	6520	6600	6480	6560	6400	6480
14	TDS mg/l	41979	41851	43542	43032	43460	43422	43286	43294	43990	43310
15	T. Alkalinity mg/l	100	104	100	98	98	100	100	102	102	102
16	Total Solids mg/l	6757	6854	6766	6858	6726	6809	6688	6772	6597	6681

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, 2024 - 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	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
2	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
3	Dt .of Sampling	29.08.2024	29.08.2024	11.09.2024	11.09.2024	13.09.2024	13.09.2024	15.09.2024	15.09.2024	17.09.2024	17.09.2024
4	Time	11.30 A.M	12.00 Noon	06.00 P.M	09.45 P.M	11.00 A.M	11.45 A.M	11.00 A.M	11.45 A.M	11.00 A.M	11.45 A.M
5	Total Chromium mg/l	0.06	0.07	0.06	0.09	0.13	0.10	0.147	0.146	0.149	0.148
6	Lead mg/l	BDL(DL:0.005)									
7	Zinc mg/l	BDL(DL:0.05)									
8	Copper mg/l	1.01	1.25	0.90	0.71	0.880	0.940	0.576	0.476	0.603	0.213
9	Cadmium mg/l	BDL(DL:0.001)									
10	Mercury mg/l	BLQ(LOQ-0.004)									
11	Antimony mg/l	BDL(DL:0.005)									
12	Barium mg/l	BDL(DL:0.05)									
13	Cobalt mg/l	BDL(DL:0.01)									
14	Manganese mg/l	BDL(DL:0.02)									
15	Strontium mg/l	1.9	1.87	1.765	1.80	1.77	1.78	1.89	1.86	1.92	1.86

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, 2024 - 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	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
2	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
3	Dt .of Sampling	29.08.2024	29.08.2024	11.09.2024	11.09.2024	13.09.2024	13.09.2024	15.09.2024	15.09.2024	17.09.2024	17.09.2024
	Time	11.30 A.M	12.00 Noon	06.00 P.M	09.45 P.M	11.00 A.M	11.45 A.M	11.00 A.M	11.45 A.M	11.00 A.M	11.45 A.M
4	Chromium mg/kg	23.6	13.4	12.6	9.52	18.6	10.06	20	14.6	7.2	16.4
5	Lead mg/kg	BDL (DL:1.0)						21.8	BDL (DL:1.0)		
6	Zinc mg/kg	52.3	33.2	18.7	24.2	54.8	52.5	33.8	19.5	19.2	21.8
7	Copper mg/kg	6.16	6.67	7.07	13.10	25.1	33.4	8.86	6.96	23.0	27.1
8	Cadmium mg/kg	BDL (DL:1.0)									
9	Mercury mg/kg	BDL (DL:1.0)									
10	Antimony mg/kg	BDL (DL:1.0)									
11	Barium mg/kg	12.5	12.7	36.4	29.40	24.9	46.1	31.8	54	6.77	7.45
12	Cobalt mg/kg	BDL (DL:1.0)									
13	Manganese mg/kg	27.5	24.3	37.1	50.6	48.7	72.9	55.3	23.8	44.6	63.7
14	Strontium mg/kg	12.9	13.7	9.76	11.4	25.4	18	30.2	17.3	30.5	17.9

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

**DEPARTMENT OF SCIENCE, TECHNOLOGY AND ENVIRONMENT
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ENVIRONMENTAL ANALYTICAL LABORATORY**

STATUS OF SEA WATER QUALITY ON THE OCCASION OF VINAYAGAR CHATURTHI FESTIVAL 2024 - KARAIKAL

S.No	Parameter	Pre Immersion		During Immersion		Post Immersion	
		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.)
1	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
2	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
3	Dt .of Sampling	29.08.2024	29.08.2024	09.09.2024	09.09.2024	12.09.2024	12.09.2024
4	Time	06.15 A.M	06.30 A.M	09.30 P.M	09.45 P.M	06.45 A.M	07.00 A.M
5	Temperature °C	28.0	28.0	30.0	30.0	29.0	29.0
6	pH	7.69	7.67	7.77	7.80	7.82	7.81
7	Conductivity mS/cm	53.2	53.2	53.6	53.6	53.7	53.7
8	Turbidity mg/l	3.6	3.9	4.0	4.1	3.1	2.9
9	DO mg/l	6.3	6.5	6.7	6.8	6.0	6.1
10	BOD mg/l	1.2	1.1	BDL	BDL	1.2	1.2
11	TSS mg/l	324.0	258.0	251.0	231.0	196.0	243.0
12	Chloride mg/l	19001.2	18906.2	22515.0	22610.0	22800.0	21755.0
13	Total Hardness mg/l	6340.0	6400.0	6300.0	6340.0	6340.0	6380.0
14	TDS mg/l	42509	42284	42884	42861	42944	42951
15	T. Alkalinity mg/l	98.0	96.0	100	100	102	102
16	Total Solids mg/l	6664.0	6658.0	6551	6571	6536	6623

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Sl. No.	Parameter	Pre Immersion		During Immersion		Post Immersion	
		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.)
1	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
2	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
3	Dt .of Sampling	29.08.2024	29.08.2024	09.09.2024	09.09.2024	12.09.2024	12.09.2024
4	Time	06.15 A.M	06.30 A.M	09.30 P.M	09.45 P.M	06.45 A.M	07.00 A.M
5	Chromium mg/l	0.08	0.08	0.09	0.11	0.08	0.05
6	Lead mg/l	BDL(DL:0.005)					
7	Zinc mg/l	BDL(DL:0.05)					
8	Copper mg/l	1.36	1.5	1.04	0.65	0.82	0.52
9	Cadmium mg/l	BDL(DL:0.001)					
10	Mercury mg/l	BLQ(LOQ-0.004)					
11	Antimony mg/l	BDL(DL:0.005)					
12	Barium mg/l	BDL(DL:0.05)					
13	Cobalt mg/l	BDL(DL:0.01)					
14	Manganese mg/l	BDL(DL:0.02)					
15	Strontium mg/l	1.84	1.8	1.783	1.837	1.814	1.803

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

BDL - Below Detection Limit; DL - Detectable Limit