

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

STATUS OF SEDIMENT QUALITY ON THE OCCASION OF VINAYAGAR CHATURTHI FESTIVAL, 2021 - 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	09.09.2021	09.09.2021	14.09.2021	14.09.2021	16.09.2021	16.09.2021	18.09.2021	18.09.2021	20.09.2021	20.09.2021	22.09.2021	22.09.2021
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	11.00 A.M	12.10 P.M	05.30 P.M	08.00 P.M	12.15 P.M	01.00 P.M	12.30 P.M	01.15 P.M	11.00 A.M	11.45 A.M	04.30 P.M	05.10 P.M
5	Chromium mg/kg	27.272	24.09	11.2	6.91	7.39	9.63	21.8	19.2	20.1	21.6	17.9	19.4
6	Lead mg/kg	BDL (DL - 1.0)											
7	Zinc mg/kg	BDL (DL - 1.0)	20.82	6.26	8.65	6.68	7.95	13.8	9.41	10.9	8.76	6.46	8.64
8	Copper mg/kg	BDL (DL - 1.0)	193.55	4.65	6.59	5.52	4.77	9.54	5.37	3.41	3.94	BDL (DL - 1.0)	7.77
9	Cadmium mg/kg	BDL (DL - 1.0)											
10	Mercury mg/kg	BDL (DL - 1.0)			151.0	BDL (DL - 1.0)		85.4	40.2	51.2	25.3	BDL (DL - 1.0)	
11	Antimony mg/kg	BDL (DL - 1.0)											
12	Barium mg/kg	101.38	179.077	17.8	82.1	83.0	123.0	113.0	94.7	156	218	284	82.3
13	Cobalt mg/kg	BDL (DL - 1.0)											
14	Manganese mg/kg	61.264	49.677	31.5	40.1	35.7	32.4	47.6	44.0	55.6	27.6	26.8	34.9
15	Strontium mg/kg	166.3	67.526	13.5	290.0	291.0	36.3	23.6	266.0	420.0	10.7	10.8	32.1

BDL - Below Detection Limit;

DL - Detectable Limit

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STATUS OF SEA WATER QUALITY ON THE OCCASION OF VINAYAGAR CHATURTHI FESTIVAL, 2021 - 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
1	Dt .of Sampling	09.09.2021	09.09.2021	14.09.2021	14.09.2021	16.09.2021	16.09.2021	18.09.2021	18.09.2021	20.09.2021	20.09.2021	22.09.2021	22.09.2021
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	11.00 A.M	12.10 P.M	05.30 P.M	08.00 P.M	12.15 P.M	01.00 P.M	12.30 P.M	01.15 P.M	11.00 A.M	11.45 A.M	04.30 P.M	05.10 P.M
5	Chromium mg/l	0.099	0.085	BDL (DL-0.01)			0.029	BDL (DL-0.1)			0.020	BDL (DL-0.1)	
6	Lead mg/l	BDL (DL-0.005)											
7	Zinc mg/l	0.18	0.27	BDL (DL-0.1)		0.12	0.169	0.107	0.277	0.170	0.171	BDL (DL-0.1)	
8	Copper mg/l	0.645	0.769	0.103	0.075	0.116	0.598	0.138	0.376	0.133	0.899	0.108	0.381
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)					0.023	BDL (DL-0.01)	0.02	BDL (DL-0.01)	0.025	BDL (DL-0.01)	
13	Cobalt mg/l	0.091	0.106	BDL (DL-0.01)									
14	Manganese mg/l	0.141	BDL (DL-0.05)			0.084	0.345	BDL (DL-0.05)	0.249	0.121	0.392	BDL (DL-0.05)	
15	Strontium mg/l	7.46	7.3	3.41	2.49	BDL (DL-0.01)							

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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	
		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	09.09.2021	09.09.2021	14.09.2021	14.09.2021	16.09.2021	16.09.2021	18.09.2021	18.09.2021	20.09.2021	20.09.2021	22.09.2021	22.09.2021
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	11.00 A.M	12.10 P.M	05.30 P.M	08.00 P.M	12.15 P.M	01.00 P.M	12.30 P.M	01.15 P.M	11.00 A.M	11.45 A.M	04.30 P.M	05.10 P.M
5	Temperature °C	30.0	31.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
6	pH	8.13	8.20	8.05	8.12	8.18	8.20	8.00	8.02	8.11	8.16	8.09	8.10
7	Conductivity mS/cm	49.8	49.3	49.7	49.5	50.0	49.6	50.2	50.4	50.2	50.2	50.5	50.5
8	Turbidity mg/l	3.7	6.9	1.8	2.5	3.4	20.1	1.6	12.2	5.5	45.3	3.4	61.1
9	DO mg/l	6.4	6.3	6.6	6.2	6.1	5.9	5.9	6.1	5.3	5.9	6.2	4.3
10	BOD mg/l	2.1	0.85	0.7	0.4	0.8	0.9	0.3	0.4	0.7	1.3	0.35	0.9
11	TSS mg/l	23.0	63.0	50.0	136.0	66.0	330.0	42.0	513.0	61.0	673.0	46.0	1236.25
12	TDS mg/l	39241.0	38916.0	40616.0	41471.0	41055.0	40867.0	38984.0	39672	41237.0	40892.0	41676.0	41240.0
13	T. Alkalinity mg/l	120.0	124.0	114.0	134.0	120.0	120.0	110.0	112.0	116.0	120.0	112.0	112.0

Ref. Pt. - Reference point

Imm. Pt. - Immersion point

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STATUS OF SEA WATER QUALITY ON THE OCCASION OF VINAYAGAR CHATURTHI FESTIVAL 2021 - 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	09.09.2021	09.09.2021	15.09.2021	15.09.2021	15.09.2021	15.09.2021	21.09.2021	21.09.2021	21.09.2021	21.09.2021	21.09.2021	21.09.2021
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	06.00 A.M	06.30 A.M	10.00 P.M	10.30 P.M	07.30 P.M	07.45 P.M	07.00 P.M	07.30 P.M	07.00 P.M	07.30 P.M	07.00 A.M	07.30 P.M
5	Temperature °C	28.0	28.0	28.4	28.4	28.2	28.2	28.4	28.4	28.6	28.4	28.5	28.2
6	pH	8.06	8.07	8.05	8.06	8.04	8.06	8.20	8.22	8.17	8.18	8.21	8.21
7	Conductivity mS/cm	50.3	52.9	49.5	50.5	50.5	50.5	51.1	51.1	50.9	51.0	51.3	51.5
8	Turbidity mg/l	5.5	5.1	3.4	3.3	4.7	4.9	7.6	3.8	3.4	3.3	3.6	3.5
9	DO mg/l	7.1	7.2	7.2	7.1	7.0	7.1	6.9	7.1	6.7	6.8	6.4	6.2
10	BOD mg/l	2.1	0.95	0.55	0.45	0.5	0.6	0.2	0.4	0.2	0.3	0.4	0.3
11	TSS mg/l	53.0	73.0	51.0	36.0	38.0	42.0	50.0	40.0	28.0	220.0	43.0	31.0
12	TDS mg/l	39261.0	38973.0	39492.0	38981.0	40045.0	40124.0	41246.0	41024.0	39831.0	39424.0	40119.0	40413.0
13	T. Alkalinity mg/l	116.0	116.0	118.0	118.0	112.0	120.0	130.0	132.0	126.0	126.0	130.0	130.0

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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
		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	09.09.2021	09.09.2021	15.09.2021	15.09.2021	15.09.2021	15.09.2021	21.09.2021	21.09.2021	21.09.2021	21.09.2021	21.09.2021	21.09.2021
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	06.00 A.M	06.30 A.M	10.00 P.M	10.30 P.M	07.30 P.M	07.45 P.M	07.00 P.M	07.30 P.M	07.00 P.M	07.30 P.M	07.00 A.M	07.30 P.M
5	Chromium mg/l	0.086	0.11	BDL (DL-0.01)									
6	Lead mg/l	BDL (DL-0.005)											
7	Zinc mg/l	0.417	0.349	BDL (DL-0.1)									
8	Copper mg/l	0.824	0.87	0.054	0.053	0.051	0.049	0.144	0.268	0.179	0.239	0.145	0.131
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	0.125	0.123	BDL (DL-0.01)									
14	Manganese mg/l	0.063	BDL (DL-0.05)										
15	Strontium mg/l	7.08	6.572	1.72	1.44	1.2	0.93	BDL (DL-0.01)					

Ref. Pt. - Reference point

Imm. Pt. - Immersion point

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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
		Kilinjalmadu (Ref. Pt.)	Kilinjalmadu (Imm. Pt.)	Kilinjalmadu (Ref. Pt.)	Kilinjalmadu (Imm. Pt.)	Kilinjalmadu (Ref. Pt.)	Kilinjalmadu (Imm. Pt.)	Kilinjalmadu (Ref. Pt.)	Kilinjalmadu (Imm. Pt.)	Kilinjalmadu (Ref. Pt.)	Kilinjalmadu (Imm. Pt.)	Kilinjalmadu (Ref. Pt.)	Kilinjalmadu (Imm. Pt.)
1	Dt .of Sampling	09.09.2021	09.09.2021	15.09.2021	15.09.2021	15.09.2021	15.09.2021	21.09.2021	21.09.2021	21.09.2021	21.09.2021	21.09.2021	21.09.2021
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	06.00 A.M	06.30 A.M	10.00 P.M	10.30 P.M	07.30 P.M	07.45 P.M	07.00 P.M	07.30 P.M	07.00 P.M	07.30 P.M	07.00 A.M	07.30 P.M
5	Temperature °C	28.0	28.0	28.4	28.4	28.2	28.2	28.4	28.4	28.6	28.4	28.5	28.2
6	pH	8.06	8.07	8.05	8.06	8.04	8.06	8.20	8.22	8.17	8.18	8.21	8.21
7	Conductivity mS/cm	50.3	52.9	49.5	50.5	50.5	50.5	51.1	51.1	50.9	51.0	51.3	51.5
8	Turbidity mg/l	5.5	5.1	3.4	3.3	4.7	4.9	7.6	3.8	3.4	3.3	3.6	3.5
9	DO mg/l	7.1	7.2	7.2	7.1	7.0	7.1	6.9	7.1	6.7	6.8	6.4	6.2
10	BOD mg/l	2.1	0.95	0.55	0.45	0.5	0.6	0.2	0.4	0.2	0.3	0.4	0.3
11	TSS mg/l	53.0	73.0	51.0	36.0	38.0	42.0	50.0	40.0	28.0	220.0	43.0	31.0
12	TDS mg/l	39261.0	38973.0	39492.0	38981.0	40045.0	40124.0	41246.0	41024.0	39831.0	39424.0	40119.0	40413.0