

**Analysis results (Physio-Chemical and Bacteriological Parameter) of different water bodies over Tamil Nadu State monitored during pre- and post-idol immersion activity during Ganesh Chaturthi - 2023**

District : CHENNAI

S.No	Sampling Location	Date of sampling	Type of water body	Pre/ Post immersion sampling	General Parameters											Heavy Metals in mg/L					
					Color(Hazen Units)	DO (mg/L)	pH	BOD (mg/L)	COD (mg/L)	Conductivity (µmho/cm)	Turbidity (mg/L)	Total Dissolved Solids (mg/L)	Chlorides (mg/L)	Sulphate (mg/L)	Total Suspended Solids (mg/L)	Cadmium	Copper	Chromium Total	Manganese	Lead	Zinc
1	Sarvatheerthakarai Kulam	13.09.2023	Pond	Pre	Dark Yellow	3	7.88	4	16	961	2	600	185	15	12	BDL [DL 0.1]	BDL [DL 0.2]	BDL [DL 0.05]	0.255	0.718	0.101
		22.09.2023		During	Pale Yellow	<1	6.87	8	16	936	2	712	180	76	17	BDL [DL 0.1]	BDL [DL 0.2]	BDL [DL 0.05]	0.263	0.722	0.12
				Post	Samples not taken																
2	Ponnerikaraiyam Lake	13.09.2023	Lake	Pre	Dark Yellow	3	6.59	4	32	419	2.5	344	75	2	8	0.143	BDL [DL 0.2]	BDL [DL 0.05]	0.3401	1.333	0.178
		22.09.2023		During	Pale Yellow	<1	6.42	10	56	479	2.5	320	90	45	14	0.149	BDL [DL 0.2]	BDL [DL 0.05]	0.362	1.348	0.182
				Post	Samples not taken																

**INFERENCE:** There is no marked difference in the sampled loaction over the Chennai sight, with refence to Pre immersion and Post Immersion, that indicates pollution due to immersion of idol.

*[Signature]*  
30/10/23  
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Priyanka.k

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**DEPUTY DIRECTOR (LABS)**  
Tamilnadu Pollution Control Board,  
76, Mount Salai, Guindy,  
Chennai-600 032.

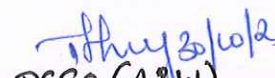
Analysis results (Physio-Chemical and Bacteriological Parameter) of different water bodies over Tamil Nadu State monitored during pre- and post-idol immersion activity during Ganesh Chaturthi - 2023

District :  
COIMBATORE  
NORTH

S. No	Sampling Location	Date of sampling	Type of water body	Pre/ Post immersion sampling	General Parameters											Heavy Metals in mg/L							
					Color(Hazen Units)	DO (mg/L)	pH	BOD (mg/L)	COD (mg/L)	Conductivity (µmho/cm)	Turbidity (mg/L)	Total Dissolved Solids (mg/L)	Chlorides (mg/L)	Total Suspended Solids (mg/L)	Total Hardness (mg/L)	Total Alkalinity (mg/L)	Cadmium	Copper	Chromium Total	Manganese	Lead	Zinc	
1	Thekkampatty	15.09.2022	Surface and River water	Pre	10	5.7	7.53	6	24	170	8.1	104	35	6	70	52	<0.0008	<0.0015	<0.05	<0.001	<0.001	<0.0015	
		20.09.2022		During	5	5.4	7.8	12	56	131	34.5	82	30	44	80	48	<0.0008	<0.0015	<0.05	<0.001	<0.0015	<0.0015	
		03.10.2022		Post	10	6.4	8.3	2	8	75	6.2	46	10	4	26	22	<0.0008	0.0101	<0.05	<0.001	<0.0015	0.0339	
2	Mettupalayam Subramaniyar Kovil	15.09.2022	Surface and River water	Pre	5	6.2	8.58	4	32	175	4.8	110	35	4	60	48	<0.0008	<0.0015	<0.05	<0.001	<0.001	<0.0015	
		20.09.2022		During	10	5.7	7.69	10	64	95	16.6	56	15	16	70	48	<0.0008	<0.0015	<0.05	<0.001	<0.001	<0.0015	
		03.10.2022		Post	<5	6.3	7.89	3	24	114	6.3	68	20	4	76	70	<0.0008	0.0092	<0.05	<0.001	<0.0015	0.0214	
3	Elagamपालayam	15.09.2022	Surface and River water	Pre	5	6.4	8.37	4	16	130	11.7	80	25	8	62	44	<0.0008	<0.0015	<0.05	<0.001	<0.001	<0.0015	
		20.09.2022		During	5	6.1	7.81	6	32	181	11.2	86	35	14	50	44	<0.0008	<0.0015	<0.05	<0.001	<0.001	<0.0015	
		03.10.2022		Post	<5	6.6	7.66	3	24	77	5.2	48	15	4	36	32	<0.0008	0.0081	<0.05	<0.001	<0.0015	0.0102	
4	Sirumugai - Pazhathottam	15.09.2022	Surface and River water	Pre	5	6.6	7.95	6	24	140	10.3	88	30	6	58	60	<0.0008	<0.0015	<0.05	<0.001	<0.001	<0.0015	
		20.09.2022		During	5	6.2	7.81	8	40	181	17.4	112	45	28	50	40	<0.0008	<0.0015	<0.05	<0.001	<0.001	<0.0015	
		03.10.2022		Post	<5	6.7	7.51	2	8	70	6	44	10	4	38	36	<0.0008	0.0074	<0.05	<0.001	<0.0015	0.0181	
5	Sirumugai-Koothaman di Pirivu	15.09.2022	Surface and River water	Pre	10	6.8	7.63	6	32	143	7.8	92	30	6	50	48	<0.0008	<0.0015	<0.05	<0.001	<0.001	<0.0015	
		03.10.2022		During	Sample not taken																		
		03.10.2022		Post	<5	6.8	7.3	3	16	85	6.2	54	15	6	38	38	<0.0008	0.0061	<0.05	<0.001	<0.0015	0.0139	
6	Vellakinar	15.09.2022	Surface and River water	Pre																			
		20.09.2022		During	5	5.6	7.78	20	160	2550	5.4	1554	450	24	640	396	<0.0008	<0.0015	<0.05	<0.001	<0.001	<0.0015	
		03.10.2022		Post																			

INFERENCE: There is no marked difference in the sampled loaction over the Coimbatore North sight, with refence to Preimmersion and Post Immersion, that indicates pollution due to immersion of idol.

  
ES  
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pnyanka.k

  
DCSO (A&W)

D.D(Labs) i/c

  
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Analysis results (Physio-Chemical and Bacteriological Parameter) of different water bodies over Tamil Nadu State monitored during pre- and post-idol immersion activity during Ganesh Chaturthi 2023

District : COIMBATORE SOUTH

S.No	Sampling Location	Date of sampling	Type of water body	Pre/ Post immersion sampling	General Parameters											Heavy Metals mg/L							
					Color(Hazen Units)	DO (mg/L)	pH	BOD (mg/L)	COD (mg/L)	Conductivity (µmho/cm)	Turbidity (mg/L)	Total Dissolved Solids (mg/L)	Chlorides (mg/L)	Total Suspended Solids (mg/L)	Total Hardness (mg/L)	Total Alkalinity (mg/L)	Cadmium	Copper	Chromium Total	Manganese	Lead	Zinc	
1	Sadivayal	14.09.2023	Surface and River water	Pre	5	6.8	7.41	8	56	1240	3.6	718	250	6	40	32	<0.0008	<0.0015	<0.05	<0.001	<0.0015	<0.0015	
		21.09.2023		During	40	6.6	7	6	40	177	6	110	55	6	23	44	<0.0008	<0.0015	<0.05	<0.001	<0.0015	<0.0015	
		26.09.2023		Post	<5	6.8	7.1	9	64	104	3.6	66	20	8	16	14	<0.0008	<0.0015	<0.05	<0.001	<0.0015	<0.0015	
2	Kuniyamthur Kulam	14.09.2023	Surface and River water	Pre	50	5.9	8.08	6	48	453	61.7	266	90	26	90	76	<0.0008	0.056	<0.05	0.042	<0.0015	0.1021	
		21.09.2023		During	50	5.8	7.17	8	64	468	61.2	270	105	12	130	80	<0.0008	0.0696	<0.05	0.0511	<0.0015	0.1818	
		26.09.2023		Post	40	6	6.96	9	72	466	60.8	264	75	18	136	128	<0.0008	0.091	<0.05	0.055	<0.0015	0.2002	
3	Nadumalai River at Vaiparai	14.09.2023	Surface and River water	Pre	5	6.2	7.7	2	16	106	3.5	52	20	6	42	24	<0.0008	<0.0015	<0.05	<0.001	<0.0015	<0.0015	
				During	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
		04.10.2023		Post	<5	6.3	7.79	3	24	230	2.6	134	45	8	68	62	<0.0008	<0.0015	<0.05	<0.001	<0.0015	<0.0015	
4	Upparu	14.09.2023	Surface and River water	Pre	5	6.5	7.55	4	8	50	4.8	32	10	8	30	28	<0.0008	<0.0015	<0.05	<0.001	<0.0015	<0.0015	
		21.09.2023		During	5	6.3	7.91	6	16	98	4.2	62	25	4	70	40	<0.0008	<0.0015	<0.05	<0.001	<0.0015	<0.0015	
		04.10.2023		Post	<5	6.5	8.09	6	32	216	22.6	126	40	8	96	92	<0.0008	<0.0015	<0.05	<0.001	<0.0015	<0.0015	
5	Anaimalai Mukkonam Aaru	14.09.2023	Surface and River water	Pre	5	6.6	7.58	4	24	84	5.4	52	20	6	38	28	<0.0008	<0.0015	<0.05	<0.001	<0.0015	<0.0015	
		21.09.2023		During	5	6.5	7.58	6	32	125	2.5	78	30	4	80	60	<0.0008	0.0101	<0.05	<0.001	<0.0015	0.0211	
		04.10.2023		Post	<5	6.6	8.56	6	40	204	10.6	124	38	8	126	120	<0.0008	0.1911	<0.05	<0.001	<0.0015	0.2426	
6	Aathuparai, Aliyar	14.09.2023	Surface and River water	Pre	<5	6.9	7.93	6	32	165	2.5	82	30	8	80	72	<0.0008	0.0282	<0.05	<0.001	<0.0015	0.0562	
		21.09.2023		During	5	6.5	7.65	8	48	145	3.2	92	45	6	70	32	<0.0008	0.0296	<0.05	<0.001	<0.0015	0.0460	
		04.10.2023		Post	<5	6.9	8.19	9	64	21.2	8.6	130	42	10	96	90	<0.0008	0.0314	<0.05	<0.001	<0.0015	0.0626	



7	Ambarapalam River at Pollachi	14.09.2023	Surface and River water	Pre	<5	6.4	7.98	6	16	162	2.3	96	25	6	78	68	<0.0008	0.0102	<0.05	<0.001	<0.0015	0.0299
		21.09.2023		During	5	6.2	7.15	8	24	140	2.4	84	40	4	80	56	<0.0008	0.0200	<0.05	<0.001	<0.0015	0.0361
		04.10.2023		Post	<5	6.4	8.42	12	56	215	6.8	132	40	10	88	86	<0.0008	0.0410	<0.05	<0.001	<0.0015	0.0710
8	Singanallur Kulam	15.09.2023	Surface and River water	Pre	150	5.8	8.21	12	56	1660	23.8	912	300	56	408	408	<0.0008	0.1718	<0.05	0.502	<0.0015	0.3260
		22.09.2023		During	100	5.8	8.37	15	72	1750	11	980	350	38	690	756	<0.0008	0.1842	<0.05	0.6616	<0.0015	0.4002
		27.09.2023		Post	135	5.8	8.03	18	80	1860	24.6	1042	375	46	620	612	<0.0008	0.2001	<0.05	0.6920	<0.0015	0.4448
9	Noyyal River, Sular	15.09.2023	Surface and River water	Pre	20	6.6	8.24	9	64	2350	12	1362	350	32	470	600	<0.0008	0.1162	<0.05	0.0802	<0.0015	0.2008
		21.09.2023		During	50	6.5	7.96	12	72	1995	1.5	1178	375	14	460	560	<0.0008	0.1664	<0.05	0.1006	<0.0015	0.3001
				Post	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Muthannakulam	15.09.2023	Surface and River water	Pre	50	6.2	8.13	18	152	1614	8.3	1032	330	20	230	380	<0.0008	0.087	<0.05	0.1042	<0.0015	0.102
		21.09.2023		During	40	5.9	8.91	21	160	1680	38.1	1042	350	8	232	396	<0.0008	0.1012	<0.05	0.1981	<0.0015	0.1886
		26.09.2023		Post	48	6.2	8.21	24	192	1590	10.8	938	300	12	238	238	<0.0008	0.1686	<0.05	0.2110	<0.0015	0.3001
11	Walayar Dam	15.09.2023	Surface and River water	Pre	50	6.6	8.58	6	56	644	10.1	368	125	22	170	168	<0.0008	0.0962	<0.05	0.0161	<0.0015	0.1008
		21.09.2023		During	5	6.2	8.44	9	72	574	14.3	354	150	10	190	172	<0.0008	0.1021	<0.05	0.0208	<0.0015	0.1168
		27.09.2023		Post	<5	6.6	7.91	12	80	490	8.2	302	80	20	186	180	<0.0008	0.1231	<0.05	0.0311	<0.0015	0.2164
12	Kurichi Kulam	15.09.2023	Surface and River water	Pre	100	6.1	8.67	12	96	1552	53	962	350	38	300	256	<0.0008	0.1917	<0.05	0.022	<0.0015	0.21
		21.09.2023		During	5	5.8	8.5	18	112	1609	16.3	1012	550	6	320	240	<0.0008	0.2216	<0.05	0.0291	<0.0015	0.3016
		26.09.2023		Post	<5	5.9	8.48	21	120	1469	18.2	866	275	22	342	336	<0.0008	0.3012	<0.05	0.0414	<0.0015	0.4999
13	Nagarajapuram Kulam	16.09.2023	Surface and River water	Pre	50	6.1	8.47	8	56	1580	14.2	932	300	22	310	400	<0.0008	0.0992	<0.05	0.1284	<0.0015	0.1108
		21.09.2023		During	50	5.8	7.96	9	72	1995	14.2	1178	650	14	360	372	<0.0008	0.1010	<0.05	0.2012	<0.0015	0.1689
		26.09.2023		Post	50	6.2	7.29	12	88	1524	428	868	295	18	372	366	<0.0008	0.2999	<0.05	0.2662	<0.0015	0.3444

INFERENCE: There is no marked difference in the sampled loaction over the Coimbatore South sight, with refence to Preimmersion and Post Immersion, that indicates pollution due to immersion of idol.

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Prjanka.k.

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**Analysis results (Physio-Chemical and Bacteriological Parameter) of different water bodies over Tamil Nadu State monitored during pre- and post-idol immersion activity during Ganesh Chaturthi - 2023**

District : TIRUPPUR

S.No	Sampling Location	Date of sampling	Type of water body	Pre/ Post immersion sampling	General Parameters											Heavy Metals							
					Color(Hazen Units)	DO (mg/L)	pH	BOD (mg/L)	COD (mg/L)	Conductivity (µmho/cm)	Turbidity (mg/L)	Total Dissolved Solids (mg/L)	Chlorides (mg/L)	Total Suspended Solids (mg/L)	Total Hardness (mg/L)	Total Alkalinity (mg/L)	Cadmium	Copper	Chromium Total	Manganese	Lead	Zinc	
1	Andipalayam Lake	19.09.2023	Lake Water	Pre-	< 5	7.6	8.15	4	32	3309	1.31	2338	793	9	760	370	< 0.05	< 0.01	0.394	< 0.1	0.0093	0.381	
		21.09.2023		During-	30	7.4	8.05	7	40	3399	13.7	2460	813	24	790	380	< 0.05	< 0.01	0.426	< 0.1	0.0104	0.388	
		22.09.2023		Post-	50	6.9	8.02	8	64	3438	20.2	2462	818	52	860	420	< 0.05	< 0.01	0.623	< 0.1	0.0108	0.394	
2	Samalapuram Lake	19.09.2023	Lake Water	Pre-	< 5	7.1	8.64	8	32	2266	10.5	1306	448	28	420	360	< 0.05	< 0.01	0.59	< 0.1	0.0095	0.387	
		21.09.2023		During-	50	7.1	8.43	8	48	2320	10.6	1376	458	29	440	410	< 0.05	< 0.01	0.623	< 0.1	0.0098	0.39	
		23.09.2023		Post-	40	7.3	8.29	10	56	2354	25	1391	458	63	450	440	< 0.05	< 0.01	0.82	< 0.1	0.0105	0.407	
3	Amaravathi River at Kaniyur	20.09.2023	River Water	Pre-	< 5	6.4	8.08	6	8	452	4.91	305	168	8	90	170	< 0.05	< 0.01	0.23	< 0.1	0.0097	0.339	
		20.09.2023		During-	100	6.7	8.62	6	56	447	63.5	336	187	113	190	230	< 0.05	< 0.01	0.558	< 0.1	0.0102	0.376	
		26.09.2023		Post-	10	6.2	7.48	< 2	8	156	5.2	115	12	12	120	80	< 0.05	< 0.01	0.754	< 0.1	0.0109	0.563	
4	Udumalpet Gedimedu PAP Canal	26.09.2023	Surface Water	Pre-	<5	6.2	7.59	< 2	8	69	2.75	58	9	4	20	40	< 0.05	< 0.01	0.295	< 0.1	0.008	0.234	
		****		During-	No immersion																		
		****		Post-																			
5	Udumalpet SV Puram PAP Canal (North)	26.09.2023	Surface Water	Pre-	5	6.1	7.95	< 2	8	54	2.12	45	7	8	30	50	< 0.05	< 0.01	0.295	< 0.1	0.0084	0.237	
		****		During-	No immersion																		
		****		Post-																			
6	Udumalpet SV Puram PAP Canal (South)	26.09.2023	Surface Water	Pre-	5	5.7	7.65	< 2	8	48	2.54	40	11	2	20	40	< 0.05	< 0.01	0.82	< 0.1	0.0099	0.375	
		****		During-	No immersion																		
		****		Post-																			

INFERENCE: There is no marked difference in the sampled location over Tiruppur sight, with reference to Preimmersion and Post Immersion, that indicates pollution due to immersion of idol.

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30/10/23  
ES  
Priyanka K

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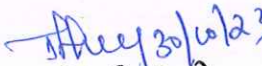
Analysis results (Physio-Chemical and Bacteriological Parameter) of different water bodies over Tamil Nadu State monitored during pre- and post-idol immersion activity during Ganesh Chaturthi - 2023


District : VELLORE

S.No	Sampling Location	Date of sampling	Type of water body	Pre/ Post immersion sampling	General Parameters									Heavy Metals , mg/L				
					DO (mg/L)	pH	BOD (mg/L)	COD (mg/L)	Total Dissolved Solids (mg/L)	Chlorides (mg/L)	Total Suspended Solids (mg/L)	Total Hardness (mg/L)	Total Alkalinity (mg/L)	Cadmium	Copper	Chromium Total	Manganese	Lead
1	KARUGAMPUTHU R LAKE	14.09.2023	LAKE	Pre	6.3	8.86	4	48	898	320	8	330	236	<0.0008	0.38	<0.01	0.12	0.14
		21.09.2023		During	6.1	8.67	3	32	660	177	32	220	248	<0.0008	0.24	<0.01	0.1	0.1
		26.09.2023		Post	<b>6.8</b>	<b>7.66</b>	<b>3</b>	<b>32</b>	<b>630</b>	<b>173</b>	<b>36</b>	<b>240</b>	<b>200</b>	<b>&lt;0.0008</b>	<b>0.22</b>	<b>&lt;0.01</b>	<b>0.09</b>	<b>0.09</b>
2	SADHUPAERI LAKE	14.09.2023	LAKE	Pre	6.4	8.64	3	32	640	167	24	220	234	<0.0008	0.34	<0.01	0.09	0.08
		21.09.2023		During	6	7.75	3	40	1634	370	40	720	320	<0.0008	0.58	<0.01	0.17	0.14
		26.09.2023		Post	<b>6.4</b>	<b>7.2</b>	<b>5</b>	<b>48</b>	<b>1548</b>	<b>248</b>	<b>32</b>	<b>1050</b>	<b>220</b>	<b>&lt;0.0008</b>	<b>0.64</b>	<b>&lt;0.01</b>	<b>0.3</b>	<b>0.22</b>
3	NELLOREPET LAKE	14.09.2023	LAKE	Pre	6.2	8.95	24	176	718	212	26	160	300	<0.0008	<0.0015	<0.01	<0.001	<0.015
		21.09.2023		During	6.5	7.86	5	56	1096	202	30	360	228	<0.0008	0.18	<0.01	0.03	0.07
		26.09.2023		Post	<b>6.1</b>	<b>7.37</b>	<b>3</b>	<b>32</b>	<b>1230</b>	<b>206</b>	<b>24</b>	<b>820</b>	<b>192</b>	<b>&lt;0.0008</b>	<b>0.35</b>	<b>&lt;0.01</b>	<b>0.15</b>	<b>0.2</b>

INFERENCE: There is no marked difference in the sampled loaction over Vellore sight, with refence to Preimmersion and Post Immersion, that indicates pollution due to immersion of idol.

  
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Analysis results (Physio-Chemical and Bacteriological Parameter) of different water bodies over Tamil Nadu State monitored during pre- and post-idol immersion activity during Ganesh Chaturthi - 2023														District : RANIPET				
S.No	Sampling Location	Date of sampling	Type of water body	Pre/ Post immersion sampling	General Parameters									Heavy Metals mg/L				
					DO (mg/L)	pH	BOD (mg/L)	COD (mg/L)	Total Dissolved Solids (mg/L)	Chlorides (mg/L)	Total Suspended Solids (mg/L)	Total Hardness (mg/L)	Total Alkalinity (mg/L)	Cadmium	Copper	Chromium Total	Manganese	Lead
1	VEPPUR LAKE	14.09.2023	LAKE	Pre	6.3	7.48	20	144	460	138	60	170	140	<0.0008	0.14	<0.01	0.04	<0.015
		22.09.2023		During	6.5	7.4	3	24	230	74	64	57	84	<0.0008	0.10	<0.01	<0.001	<0.015
		29.09.2023		Post	<b>6.9</b>	<b>7</b>	<b>3</b>	<b>24</b>	<b>280</b>	<b>79</b>	<b>40</b>	<b>110</b>	<b>80</b>	<b>&lt;0.0008</b>	<b>0.11</b>	<b>&lt;0.01</b>	<b>0.05</b>	<b>&lt;0.015</b>
2	ARCOT LAKE	14.09.2023	LAKE	Pre	6.8	7.95	28	200	926	290	32	290	360	<0.0008	0.44	<0.01	0.14	0.12
		22.09.2023		During	7.1	8.3	13	80	836	256	58	250	268	<0.0008	0.36	<0.01	0.11	0.14
		29.09.2023		Post	<b>7</b>	<b>8.26</b>	<b>9</b>	<b>72</b>	<b>732</b>	<b>229</b>	<b>52</b>	<b>200</b>	<b>232</b>	<b>&lt;0.0008</b>	<b>0.29</b>	<b>&lt;0.01</b>	<b>0.08</b>	<b>0.09</b>
3	MAGAMMAPET LAKE	14.09.2023	LAKE	Pre	6.8	8.27	19	136	820	266	8	270	256	<0.0008	0.30	<0.01	0.19	0.12
		20.09.2023		During	6.5	8.47	3	24	842	251	8	310	266	<0.0008	0.32	<0.01	0.26	0.15
		25.09.2023		Post	<b>5.5</b>	<b>7.86</b>	<b>2</b>	<b>8</b>	<b>910</b>	<b>262</b>	<b>8</b>	<b>390</b>	<b>236</b>	<b>&lt;0.0008</b>	<b>0.36</b>	<b>&lt;0.01</b>	<b>0.38</b>	<b>0.21</b>
4	MAVERU LAKE	14.09.2023	LAKE	Pre	7	7.95	20	144	780	222	8	330	180	<0.0008	0.28	<0.01	0.11	0.05
		20.09.2023		During	7	8.27	5	56	674	217	8	250	184	<0.0008	0.20	<0.01	0.06	0.06
		25.09.2023		Post	<b>6</b>	<b>7.78</b>	<b>3</b>	<b>24</b>	<b>680</b>	<b>220</b>	<b>8</b>	<b>270</b>	<b>172</b>	<b>&lt;0.0008</b>	<b>0.21</b>	<b>&lt;0.01</b>	<b>0.07</b>	<b>0.05</b>
5	TANDALAM LAKE	14.09.2023	LAKE	Pre	7	7.83	24	176	1210	503	42	500	196	<0.0008	0.54	<0.01	0.3	0.18
		20.09.2023		During	6.8	8.4	12	88	1081	473	50	400	188	<0.0008	0.48	<0.01	0.25	0.14
		29.09.2023		Post	<b>7.1</b>	<b>7.63</b>	<b>4</b>	<b>40</b>	<b>810</b>	<b>295</b>	<b>30</b>	<b>330</b>	<b>160</b>	<b>&lt;0.0008</b>	<b>0.39</b>	<b>&lt;0.01</b>	<b>0.18</b>	<b>0.08</b>
6	PULIYANTHANGAL LAKE	14.09.2023	LAKE	Pre	6.1	7.82	27	184	1020	320	34	350	232	<0.0008	0.44	<0.01	0.21	0.18
		22.09.2023		During	7	7.7	4	56	1110	286	10	260	228	<0.0008	0.5	<0.01	0.19	0.15
		29.09.2023		Post	<b>7</b>	<b>7.36</b>	<b>3</b>	<b>24</b>	<b>380</b>	<b>79</b>	<b>12</b>	<b>110</b>	<b>160</b>	<b>&lt;0.0008</b>	<b>0.10</b>	<b>&lt;0.01</b>	<b>0.08</b>	<b>&lt;0.015</b>

INFERENCE: There is no marked difference in the sampled loaction over the Ranipet sight, with refence to Preimmersion and Post Immersion, that indicates pollution due to immersion of idol.

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Analysis results (Physio-Chemical and Bacteriological Parameter) of different water bodies over Tamil Nadu State monitored during pre- and post-idol immersion activity during Ganesh Chaturthi - 2023													District : VANIYAMBADI					
S.No	Sampling Location	Date of sampling	Type of water body	Pre/Post immersion sampling	General Parameters								Heavy Metals ,mg/L					
					DO (mg/L)	pH	BOD (mg/L)	COD (mg/L)	Total Dissolved Solids (mg/L)	Chlorides (mg/L)	Total Suspended Solids (mg/L)	Total Hardness (mg/L)	Total Alkalinity (mg/L)	Cadmium	Copper	Chromium Total	Manganese	Lead
1	PALLIPATTU LAKE, VANIYAMBADI	14.09.2023	LAKE	Pre	4.8	8.7	5	48	878	305	24	240	312	<0.0008	0.45	<0.01	0.14	0.12
		20.09.2023		During	7.1	9.02	6	56	746	202	60	200	320	<0.0008	0.34	<0.01	0.08	0.09
		27.09.2023		Post	6.9	8.09	5	48	610	172	42	180	220	<0.0008	0.28	<0.01	<0.001	<0.015
2	ADHIYUR LAKE, TIRUPATHUR	14.09.2023	LAKE	Pre	4.9	9.1	4	40	768	222	22	250	336	<0.0008	0.38	<0.01	<0.001	<0.015
		21.09.2023		During	6.2	8.17	4	56	846	261	10	140	272	<0.0008	0.54	<0.01	0.07	0.11
		27.09.2023		Post	6.4	8.15	3	32	620	182	14	210	212	<0.0008	0.3	<0.01	<0.001	0.06
3	KALLIKUTTAI LAKE, NATAMPALI	14.09.2023	LAKE	Pre	6	8.69	10	136	368	54	46	110	192	<0.0008	0.21	<0.01	<0.001	0.08
		20.09.2023		During	6.1	8.04	8	64	382	64	56	120	172	<0.0008	0.23	<0.01	<0.001	0.1
		27.09.2023		Post	6.5	7.54	2	16	280	61	32	130	76	<0.0008	0.16	<0.01	<0.001	0.08
4	SANTRORKUPPAM LAKE, AMBUR	14.09.2023	LAKE	Pre	7	8.77	2	16	318	64	8	180	330	<0.0008	0.22	<0.01	<0.001	<0.015
		21.09.2023		During	6.1	7.9	3	32	1020	488	8	250	260	<0.0008	0.61	<0.01	0.22	0.21
		27.09.2023		Post	6.8	8.26	3	24	926	421	8	250	220	<0.0008	0.48	<0.01	0.18	0.15
5	ANAIMADUVU LAKE, AMBUR	14.09.2023	LAKE	Pre	6.1	8.97	6	56	1160	562	8	290	296	<0.0008	0.64	<0.01	0.19	0.14
		21.09.2023		During	6.4	8.21	2	8	644	59	8	250	312	<0.0008	0.34	<0.01	0.8	0.08
		27.09.2023		Post	6.8	8.48	2	8	630	47	8	230	340	<0.0008	0.32	<0.01	0.8	0.07
6	NAMMAKAL DAM, JOLARPET	20.09.2023	URFAC	Pre	6.5	8.51	4	40	647	133	8	220	274	<0.0008	0.38	<0.01	0.18	0.06
		20.09.2023		During	6.4	8.64	5	48	891	167	8	360	344	<0.0008	0.52	<0.01	0.27	0.15
		27.09.2023		Post	6	8.33	2	16	840	150	8	360	320	<0.0008	0.48	<0.01	0.24	0.13

INFERENCE: There is no marked difference in the sampled location over the Vaniyambadi sight with reference to Preimmersion and Post Immersion that indicates pollution due to immersion of idol.

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Analysis results (Physio-Chemical and Bacteriological Parameter) of different water bodies over Tamil Nadu State monitored during pre- and post-idol immersion activity during Ganesh Chaturthi - 2023														District : TIRUVANNAMALAI				
S.No	Sampling Location	Date of sampling	Type of water body	Pre/Post immersion sampling	General Parameters								Heavy Metals in mg/L					
					DO (mg/L)	pH	BOD (mg/L)	COD (mg/L)	Total Dissolved Solids (mg/L)	Chlorides (mg/L)	Total Suspended Solids (mg/L)	Total Hardness (mg/L)	Total Alkalinity (mg/L)	Cadmium	Copper	Chromium Total	Manganese	Lead
1	THAMARAIKULA LAKE	15.09.2023	LAKE	Pre	6.7	8.69	24	152	802	222	42	230	330	<0.0008	0.48	<0.01	0.09	0.12
		20.09.2023		During	6.5	8.64	16	152	894	232	52	300	332	<0.0008	0.61	<0.01	0.12	0.18
		26.09.2023		Post	<b>6.9</b>	<b>7.75</b>	<b>5</b>	<b>56</b>	<b>792</b>	<b>206</b>	<b>58</b>	<b>310</b>	<b>252</b>	<b>&lt;0.0008</b>	<b>0.53</b>	<b>&lt;0.01</b>	<b>0.1</b>	<b>0.11</b>
2	PACHAIYANMAN KOVIL KULAM	15.09.2023	LAKE	Pre	7	8.48	2	16	660	133	8	220	290	<0.0008	0.36	<0.01	0.15	<0.015
		20.09.2023		During	6.8	8.6	3	24	694	103	8	220	336	<0.0008	0.42	<0.01	0.19	0.06
		26.09.2023		Post	<b>7</b>	<b>7.91</b>	<b>2</b>	<b>8</b>	<b>402</b>	<b>75</b>	<b>8</b>	<b>130</b>	<b>180</b>	<b>&lt;0.0008</b>	<b>0.28</b>	<b>&lt;0.01</b>	<b>0.07</b>	<b>&lt;0.015</b>
3	POLLUR LAKE	15.09.2023	LAKE	Pre	6.5	8.11	4	56	702	261	12	190	232	<0.0008	0.28	<0.01	0.1	0.08
		20.09.2023		During	6.3	8.05	7	80	770	298	44	190	272	<0.0008	0.4	<0.01	0.15	0.12
		26.09.2023		Post	<b>7</b>	<b>7.54</b>	<b>5</b>	<b>40</b>	<b>610</b>	<b>108</b>	<b>28</b>	<b>240</b>	<b>240</b>	<b>&lt;0.0008</b>	<b>0.18</b>	<b>&lt;0.01</b>	<b>0.05</b>	<b>0.06</b>
4	KOOR LAKE	15.09.2023	LAKE	Pre	6.1	7.33	3	32	184	49	28	42	76	<0.0008	0.45	<0.01	0.16	0.1
		20.09.2023		During	6	7.39	5	56	284	49	20	110	96	<0.0008	0.52	<0.01	0.18	0.19
		26.09.2023		Post	<b>6.2</b>	<b>7.49</b>	<b>2</b>	<b>16</b>	<b>358</b>	<b>61</b>	<b>18</b>	<b>190</b>	<b>96</b>	<b>&lt;0.0008</b>	<b>0.83</b>	<b>&lt;0.01</b>	<b>0.27</b>	<b>0.25</b>
5	KONERIRAYAN LAKE	15.09.2023	LAKE	Pre	6.8	8.89	16	104	856	237	46	310	292	<0.0008	0.41	<0.01	0.13	0.1
		22.09.2023		During	6.5	8.16	12	80	894	246	20	330	260	<0.0008	0.5	<0.01	0.2	0.14
		27.09.2023		Post	<b>6.1</b>	<b>7.84</b>	<b>6</b>	<b>56</b>	<b>790</b>	<b>248</b>	<b>38</b>	<b>300</b>	<b>216</b>	<b>&lt;0.0008</b>	<b>0.38</b>	<b>&lt;0.01</b>	<b>0.1</b>	<b>0.07</b>
6	BOOMACHETTI KULAM	15.09.2023	LAKE	Pre	6.6	8.7	12	104	1462	493	8	350	568	<0.0008	0.38	<0.01	0.14	0.1
		22.09.2023		During	4.8	5.09	9	72	1494	513	8	390	520	<0.0008	0.41	<0.01	0.16	0.12
		27.09.2023		Post	<b>6.4</b>	<b>7.86</b>	<b>9</b>	<b>72</b>	<b>1260</b>	<b>416</b>	<b>16</b>	<b>340</b>	<b>472</b>	<b>&lt;0.0008</b>	<b>0.25</b>	<b>&lt;0.01</b>	<b>0.1</b>	<b>0.07</b>
7	IYINTHUKAN VARAPATHI LAKE	15.09.2023	LAKE	Pre	6.2	8.16	3	40	806	182	28	300	236	<0.0008	0.3	<0.01	0.19	0.12
		22.09.2023		During	6.3	7.76	3	24	868	182	8	320	304	<0.0008	0.54	<0.01	0.24	0.21
		27.09.2023		Post	<b>6.7</b>	<b>7.59</b>	<b>3</b>	<b>24</b>	<b>720</b>	<b>140</b>	<b>10</b>	<b>330</b>	<b>236</b>	<b>&lt;0.0008</b>	<b>0.21</b>	<b>&lt;0.01</b>	<b>0.1</b>	<b>0.08</b>

INFERENCE: There is no marked difference in the sampled loaction over the Thiruvannamalai sight, with refence to Preimmersion and Post Immersion, that indicates pollution due to immersion of idol.

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**Analysis results (Physio-Chemical and Bacteriological Parameter) of different water bodies over Tamil Nadu State monitored during pre- and post-idol immersion activity during Ganesh Chaturthi - 2023**

District : VIRUDHUNAGAR

S.No	Sampling Location	Date of sampling	Type of water body	Pre/ Post immersion sampling	General Parameters											Heavy Metals mg/L					Micro					
					Color(Hazen Units)	DO (mg/L)	pH	BOD (mg/L)	COD (mg/L)	Conductivity (µmho/cm)	Turbidity (mg/L)	Total Dissolved Solids (mg/L)	Chlorides (mg/L)	Total Suspended Solids (mg/L)	Total Hardness (mg/L)	Total Alkalinity (mg/L)	Cadmium	Copper	Chromium Total	Manganese	Lead	Zinc	Fecal Coliform MPN/100ml	Total Coliform MPN/100ml		
1	KALKI DANGU WELL	12.09.2023	WELL	Pre	<5	5.6	6.71	5	8	983	9.94	644	135	34	164	60	<0.0008	<0.0015	0.017	0.007	0.031	<0.0015	6.8	14		
				During	No immersion																					
				Post																						
2	ALAN GULAM QUARRY	12.09.2023	Pit	Pre	<5	6.1	7.7	2	16	264	1.19	182	35	12	96	60	<0.0008	<0.0015	0.009	0.024	0.058	<0.0015	7.8	21		
				During	No immersion																					
				Post																						
3	AAVIDUYAPU RAMWELL	12.09.2023	Well	Pre	<5	6	7.08	5	8	1859	0.33	1234	360	12	196	276	<0.0008	<0.0015	0.019	0.016	0.075	0.007	4	14		
				During	No immersion																					
				Post																						
4	KURNUR TANK	14.09.2023	Tank	Pre	<5	5.8	7.5	2	96	877	46	584	185	80	140	80	<0.0008	<0.0015	0.123	0.174	0.13	0.482	<1.8	17		
		15.09.2023		Pre - Sediments														<0.0008	<0.0015	0.172	2.805	1.005	0.685			
				During	No immersion																					
				Post																						
5	KOORAPATTI TANK	14.09.2023	Tank	Pre	<5	6	8.01	5	96	1602	50.8	1060	335	94	140	96	<0.0008	<0.0015	0.117	0.124	0.129	0.35	1.8	17		
		15.09.2023		Pre - Sediments													<0.0008	<0.0015	0.148	1.52	1.01	0.445				
				During	No immersion																					
				Post																						
6	RAMACHANDRAPURAM TANK	14.09.2023	Tank	Pre	<5	6.1	8.1	2	72	538	88.4	360	95	76	100	72	<0.0008	<0.0015	0.094	0.055	0.115	0.018	2	20		
		15.09.2023		Pre - Sediments													<0.0008	0.12	0.184	5.405	0.985	0.795				
				During	No immersion																					
				Post																						

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**Analysis results (Physio-Chemical and Bacteriological Parameter) of different water bodies over Tamil Nadu State monitored during pre- and post-idol immersion activity during Ganesh Chaturthi - 2023**

District : VIRUDHUNAGAR

S.No	Sampling Location	Date of sampling	Type of water body	Pre/ Post immersion sampling	General Parameters											Heavy Metals mg/L					Micro					
					Color(Hazen Units)	DO (mg/L)	pH	BOD (mg/L)	COD (mg/L)	Conductivity (µmho/cm)	Turbidity (mg/L)	Total Dissolved Solids (mg/L)	Chlorides (mg/L)	Total Suspended Solids (mg/L)	Total Hardness (mg/L)	Total Alkalinity (mg/L)	Cadmium	Copper	Chromium Total	Manganese	Lead	Zinc	Fecal Coliform MPN/100ml	Total Coliform MPN/100ml		
7	KONAGIRI KULAM	14.09.2023	Kulam	Pre	<5	6	7.07	2	24	309	33.2	210	45	50	84	52	<0.0008	<0.0015	0.028	0.013	0.104	0.027	<1.8	14		
		15.09.2023		Pre - Sediments														<0.0008	1.27	0.113	2.475	0.795	2.385			
				During	No immersion																					
				Post																						
8	MADAVARVALAGAIMKULAM	14.09.2023	Kulam	Pre	<5	6.1	8.26	2	128	462	13	304	85	54	76	38	<0.0008	<0.0015	0.03	0.032	0.101	0.055	<1.8	9.2		
				During	No immersion																					
				Post																						
9	Kalkidangu, E.Mettur, Yelajiramma	14.09.2023		Pre	<5	5.9	7.88	5	88	1426	1.41	930	315	60	212	100	<0.0008	<0.0015	0.099	0.029	0.131	0.023	<1.8	17		
				During	No immersion																					
				Post																						
10	Arupukottai Periya Kanmai	21.09.2023	Kanmai	Pre																						
				During	<5	4.8	7.71	6	96	954	12	630	210	30	100	80	0.009	0.054	0.021	0.309	0.273	0.364	6.8	39		
				During - Sediments															0.02	0.72	0.034	15.94	0.435	2.75		
				Post	<5	4.6	6.67	8	104	2860	10	2010	250	32	100	100	0.026	0.018	0.03	0.654	0.347	0.13	7.9	43		
11	Quarry Pit	22.09.2023	Pit	Pre																						
				During	<5	5.8	6.72	3	88	283	10.32	184	40	14	100	80	0.039	0.017	0.021	0.244	0.257	0.022	2	53		
				During - Sediments															0.035	0.39	0.038	9.675	1.33	0.7		
				Post	<5	5.5	6.55	5	88	320	8	224	50	16	120	80	0.025	0.017	0.032	0.273	0.347	0.019	2	49		
12	Well	21.09.2023	Well	Pre																						
		During		<5	5.8	6.99	6	320	1869	11	1238	400	14	350	100	0.012	0.04	0.029	0.265	0.263	0.088	4.5	43			
		22.09.2023		Post	<5	5.4	6.91	8	104	1990	9.2	1396	480	16	400	200	0.026	1.014	0.033	0.218	0.348	0.007	4.5	49		
13	Quarry Pit	21.09.2023	Pit	Pre																						
		During		<5	5.2	7.98	3	136	267	60	188	250	14	200	100	0.017	0.04	0.128	0.238	0.284	0.566	7.8	23			
		22.09.2023		Post	<5	5	7.69	4	144	290	32	192	320	16	220	110	0.025	0.017	0.131	0.24	0.35	0.014	7.8	43		



**Analysis results (Physio-Chemical and Bacteriological Parameter) of different water bodies over Tamil Nadu State monitored during pre- and post-idol immersion activity during Ganesh Chaturthi - 2023**

District : VIRUDHUNAGAR

S.No	Sampling Location	Date of sampling	Type of water body	Pre/Post immersion sampling	General Parameters											Heavy Metals mg/L					Micro					
					Color(Hazen Units)	DO (mg/L)	pH	BOD (mg/L)	COD (mg/L)	Conductivity (µmho/cm)	Turbidity (mg/L)	Total Dissolved Solids (mg/L)	Chlorides (mg/L)	Total Suspended Solids (mg/L)	Total Hardness (mg/L)	Total Alkalinity (mg/L)	Cadmium	Copper	Chromium Total	Manganese	Lead	Zinc	Fecal Coliform MPN/100ml	Total Coliform MPN/100ml		
14	Pond	15.09.2023	Pond	Pre	10	5.7	6.95	22	208	2940	87	1948	555	36	448	316	<0.0008	<0.0015	0.105	0.284	0.138	0.054	<1.8	7.8		
				Pre - Sediments															<0.0008	0.505	0.297	3.69	0.75	0.075		
		21.09.2023		During	<5	5.5	6.98	6	80	552	58	386	156	16	110	96	0.307	0.018	0.12	0.296	0.293	0.426	4.3	45		
		22.09.2023		Post	10	5.3	7.53	7	88	560	40	392	162	18	140	100	0.026	0.011	0.126	0.098	0.359	0.016	4.3	47		
15	Pond	15.09.2023	Pond	Pre	10	5.9	7	5	24	351	64	244	50	12	116	72	<0.0008	<0.0015	0.128	0.874	0.146	0.195	<1.8	8.2		
				Pre - Sediments															<0.0008	0.107	0.201	4.735	0.77	1.4		
		21.09.2023		During	10	5.2	6.43	3	32	190	28	132	65	14	110	80	0.018	0.726	0.102	0.451	0.287	0.21	4.5	27		
		22.09.2023		During - Sediments															0.02	1.36	0.114	9.375	3.14	0.67		
				Post	10	5	6.48	5	80	280	20	198	82	16	120	80	0.023	0.819	0.122	0.669	0.361	0.226	4.5	27		
				Post - Sediments												0.04	0.125	0.142	17.28	3.315	1.56					
16	Kanmai	21.09.2023	Kanmai	Pre																						
				During	<5	5.8	6.67	4	72	833	52.5	584	250	60	80	60	0.018	0.071	0.036	0.289	0.286	0.87	4.5	23		
		22.09.2023		During - Sediments														0.04	0.56	0.041	1.39	1.19	0.97			
		Post		<5	5.4	6.5	5	80	860	38.2	592	260	62	110	80	0.024	0.077	0.014	0.29	0.374	0.089	7.8	39			
				Post - Sediments												0.025	0.115	0.037	49.64	1.25	1.705					
17	Kanmai	21.09.2023	Kanmai	Pre																						
				During	10	5.8	6.83	3	40	253	11.2	174	84	12	80	40	0.016	0.04	0.041	0.292	0.297	0.072	2	23		
		22.09.2023		During - Sediments														0.05	1.005	0.096	10.59	5.025	1.12			
		Post		10	5.4	7.4	5	48	290	10.2	178	84	14	80	50	0.022	0.016	0.052	0.129	0.348	0.033	2	23			
				Post - Sediments												0.025	0.11	0.06	19.61	2.27	0.805					
18	Periya Kanmai	21.09.2023	Kanmai	Pre																						
				During	<5	5.2	7.49	6	80	1403	15.2	928	315	62	110	100	0.02	0.088	0.104	0.278	0.308	0.047	4.5	32		
		22.09.2023		During - Sediments														0.03	0.201	0.123	8.845	1.475	1.23			
		Post		<5	5	7.58	8	96	1410	12.1	942	320	64	110	100	0.024	0.02	0.131	0.239	0.35	0.06	4.5	49			
				Post - Sediments												0.015	0.125		20.63	3.085	1.615					
19	Well		Well	Pre																						
				During	<5	5	7.6	25	216	2830	90	1924	555	74	100	80	0.008	0.009	0.158	0.587	0.141	0.671	2	11		
				Post	<5	5.2	6.71	10	80	970	45.6	664	560	48	100	80	0.026	0.015	0.161	0.108	0.354	0.039	1.8	8.2		
20	Quarry Pit	23.09.2023	Pit	Pre																						
				During	<5	5.7	7.36	6	72	1384	79	964	450	16	80	60	0.028	0.022	0.135	0.856	0.367	0.03	9.1	24		
				Post	<5	5	7.36	8	96	1451	12	1010	480	18	80	60	0.027	0.019	0.142	0.071	0.354	0.015	9.1	24		

INFERENCE: There is no marked difference in the sampled loaction over the Viruthunagar sight, with refence to Preimmersion and Post Immersion, that indicates pollution due to immersion of idol.

*[Signature]*  
30/10/23  
ES  
Priyanka

*[Signature]*  
30/10/23  
DCSO (AAW)

DD (Labs) i/c

DEPUTY DIRECTOR (LAB)  
Tamilnadu Pollution Control B  
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Analysis results (Physio-Chemical and Bacteriological Parameter) of different water bodies over Tamil Nadu State monitored during pre, during and post-idol immersion activity during Ganesh Chaturthi - 2023

District : THOOTHUKUDI

S. No	Sampling Location	Date of sampling	Type of water body	Pre/ During/ Post immersion sampling	General Parameters											Heavy Metals , mg/L						Microbiological		
					Colour	DO (mg/L)	pH	BOD (mg/L)	COD (mg/L)	Conductivity (µmho/cm)	Turbidity (mg/L)	Total Dissolved Solids (mg/L)	Chlorides (mg/L)	Total Suspended Solids (mg/L)	Total Hardness (mg/L)	Total Alkalinity (mg/L)	Cadmium (mg/L)	Copper (mg/L)	Chromium Total (mg/L)	Manganese (mg/L)	Lead (mg/L)	Zinc (mg/L)	Fecal Coliform MPN/100ml	Total Coliform MPN/100ml
1	Thirespuram	15.09.2023	Sea water	Pre	colour less	6.8	7.64	2.86	104	54600	2.32	40920	27440	2	5900	90	0.001	<0.001	<0.003	0.383	<0.001	<0.001	6	11
		24.09.2023		During	colour less	6.7	7.58	2.98	96	54400	2.56	40860	27930	2	6010	100	0.003	<0.001	<0.003	0.215	<0.001	0.092	6.1	13
		26.09.2023		Post	colour less	6.8	7.62	2.9	96	54500	2.38	40850	27440	2	6400	98	0.001	<0.001	<0.003	0.065	<0.001	0.099	8.2	17
2	Muthiyapuram	15.09.2023	Sea water	Pre	colour less	6.5	8.05	2.54	88	53500	1.14	39860	25970	2	6100	98	0.002	<0.001	<0.003	0.110	<0.001	<0.001	8.2	13
		24.09.2023		During	colour less	6.4	8.06	2.42	96	53600	1.26	40240	26460	2	6160	102	0.004	<0.001	<0.003	0.174	<0.001	0.034	8.3	14
		26.09.2023		Post	colour less	6.5	8.04	2.48	88	53400	1.18	40080	25970	2	6140	102	0.003	<0.001	<0.003	0.182	<0.001	0.024	9.1	20
3	Tiruchendur	15.09.2023	Sea water	Pre	colour less	6.9	8.21	2.67	96	52900	1.06	39630	25480	2	6000	100	<0.001	<0.001	<0.003	0.054	<0.001	<0.001	8.3	17
		24.09.2023		During	colour less	6.8	8.17	2.78	104	52600	1.18	39400	25970	2	6000	100	0.003	<0.001	<0.003	0.224	<0.001	0.033	8.1	15
		26.09.2023		Post	colour less	6.9	8.2	2.7	96	52800	1.08	39640	25480	2	6200	100	0.002	<0.001	<0.003	0.051	<0.001	0.031	9.3	21
4	Kulasekara pattinam	15.09.2023	Sea water	Pre	colour less	6.7	8.15	2.32	112	52800	1.04	39620	24990	2	6400	100	<0.001	<0.001	<0.003	0.100	<0.001	<0.001	9.1	14
		24.09.2023		During	colour less	6.6	8.02	2.46	120	52700	1.16	39500	25480	2	6140	102	<0.001	<0.001	<0.003	0.411	<0.001	0.026	9.2	17
		26.09.2023		Post	colour less	6.7	8.14	2.38	104	52600	1.06	39440	24990	2	6280	100	0.003	<0.001	<0.003	0.047	<0.001	0.022	6.2	14
5	Vembar	22.09.2023	Sea water	Pre	colour less	6.7	8	2.38	104	53800	1.08	40360	26460	2	6260	100	0.001	<0.001	<0.003	0.077	<0.001	0.040	6.1	15
		24.09.2023		During	colour less	6.3	8.03	2.44	112	53700	1.24	40280	26460	2	5800	96	0.001	<0.001	<0.003	0.133	<0.001	0.034	8.1	17
		26.09.2023		Post	colour less	6.7	8	2.4	104	53600	1.12	40220	25970	2	5880	94	0.003	<0.001	<0.003	0.078	<0.001	0.023	6.1	13
6	Eral	22.09.2023	River Water	Pre	colour less	6.5	7.72	2.44	16	194	0.8	112	12.7	2	8	54	0.001	<0.001	<0.003	0.087	<0.001	0.042	11	24
		24.09.2023		During	pale yellow	6.4	7.68	2.58	32	186	2.1	110	10.8	2	20	56	0.001	<0.001	<0.003	0.274	<0.001	0.028	12	26
		26.09.2023		Post	colour less	6.5	7.63	2.46	24	170	0.9	98	9.8	2	16	52	0.005	<0.001	<0.003	0.087	<0.001	0.024	10	25
7	Abandoned quarry, Akilandapuram village, Kayathar	24.09.2023	Surface water	Pre	colour less	6.2	9.17	2.86	72	210	2.3	140	7.8	2	4	76	0.002	<0.001	<0.003	0.121	<0.001	0.042	32	58
		24.09.2023		During	Brown	5.8	8.27	5.94	88	256	15.4	180	8.8	22	2	80	0.002	<0.001	<0.003	0.299	<0.001	0.047	38	76
		26.09.2023		Post	colour less	6	9.05	5.62	64	240	8.8	160	8.8	10.6	20	74	0.001	<0.001	<0.003	0.136	<0.001	0.025	35	65

INFERENCE: There is no marked difference in the sampled loaction over the Thoothukudi sight, with refence to Preimmersion and Post Immersion, that indicates pollution due to immersion of idol.

*[Signature]*  
30/10/23  
ES

*[Signature]*  
30/10/23  
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Analysis results (Physio-Chemical and Bacteriological Parameter) of different water bodies over Tamil Nadu State monitored during pre- and post-idol immersion activity during Ganesh Chaturthi - 2023																		District : Tirunelveli					
SL. No	Sampling Location in Tirunelveli	Date of sampling	Type of water body	Immersion Sampling	DO (mg/L)	pH	BOD (mg/L)	COD (mg/L)	Conductivity (µmho/cm)	Turbidity (mg/L)	Total Dissolved Solids (mg/L)	Chlorides (mg/L)	Total Suspended Solids (mg/L)	Total Hardness (mg/L)	Total Alkalinity (mg/L)	Cadmium	Copper	Chromium Total	Manganese	Lead	Zinc	Fecal Coliform	Total Coliform
General Parameters																		Heavy Metals					
1	Tamaraparani R. Kokkarakulam	13.09.2023	River	Pre	5.4	6.34	4	32	110	3	80	12	4	52	16	<0.0008	0.014	<0.01	<0.1	<0.015	0.017	6	14
		24.09.2023		During	4.8	7.08	12	96	386	5	284	75	12	124	28	<0.0008	0.021	<0.01	<0.1	<0.015	0.03	6.1	15
		26.09.2023		Post	5.6	7.47	4	32	97	3	72	15	4	48	12	<0.0008	0.011	<0.01	<0.1	<0.015	0.01	6.8	7
2	Vannarapettai Peratchiamman kovil	13.09.2023	River	Pre	5.3	6.26	3	24	112	4	86	15	8	54	16	<0.0008	0.017	<0.01	<0.1	<0.015	0.02	8.2	21
		24.09.2023		During	4.4	6.72	10	80	320	6	240	60	16	90	24	<0.0008	0.026	<0.01	<0.1	<0.015	0.036	10	24
		26.09.2023		Post	5.4	7.12	3	24	104	3	78	18	6	52	12	<0.0008	0.013	<0.01	<0.1	<0.015	0.015	9.3	24
3	Manimutheswaram	13.09.2023	River	Pre	5.2	6.41	6	48	105	3	82	13	6	52	20	<0.0008	0.012	<0.01	<0.1	<0.015	0.015	10	25
		24.09.2023		During	4.3	6.86	15	120	582	6	424	90	16	130	32	<0.0008	0.028	<0.01	<0.1	<0.015	0.048	14	31
		26.09.2023		Post	5.2	7.15	5	40	100	3	74	16	4	48	16	<0.0008	0.009	<0.01	<0.1	<0.015	0.009	13	27
4	Kurukuthurai	13.09.2023	River	Pre	5.9	6.46	5	40	98	3	74	10	4	60	12	<0.0008	0.019	<0.01	<0.1	<0.015	0.011	6.1	15
		24.09.2023		During	4.5	7	13	104	428	5	316	85	16	110	24	<0.0008	0.036	<0.01	<0.1	<0.015	0.039	6	14
		26.09.2023		Post	5.8	6.48	4	32	85	3	62	12	4	42	8	<0.0008	0.01	<0.01	<0.1	<0.015	0.013	6.8	17
5	Naranamalpuram	13.09.2023	River	Pre	5.9	6.36	3	24	108	3	86	15	4	56	16	<0.0008	0.015	<0.01	<0.1	<0.015	0.012	8.1	22
		24.09.2023		During	4.7	6.92	12	96	392	6	286	65	14	100	20	<0.0008	0.027	<0.01	<0.1	<0.015	0.046	8	21
		26.09.2023		Post	5.8	6.94	4	32	104	3	78	18	4	52	12	<0.0008	0.01	<0.01	<0.1	<0.015	0.008	9.3	24
6	Uvari	13.09.2023	Sea	Pre	6	6.57	5	40	36700	6	28624	13996	8	1860	224	<0.0008	0.048	<0.01	<0.1	<0.015	0.068	11	21
		24.09.2023		During	4.2	7.02	9	72	48100	12	35596	16765	28	3680	316	<0.0008	0.062	<0.01	<0.1	<0.015	0.089	10	22
		26.09.2023		Post	6.1	7.42	4	32	37900	6	27828	13560	8	1980	262	<0.0008	0.037	<0.01	<0.1	<0.015	0.043	11	24
7	Chettikulam	13.09.2023	Sea	Pre	6.1	7.36	4	32	38000	7	28920	15995	12	1940	236	<0.0008	0.072	<0.01	<0.1	<0.015	0.065	10	22
		24.09.2023		During	4.5	7.48	6	48	48900	12	37280	19995	28	3960	340	<0.0008	0.107	<0.01	<0.1	<0.015	0.098	10	26
		26.09.2023		Post	6.2	7.28	3	24	39200	6	29368	15980	12	2160	248	<0.0008	0.052	<0.01	<0.1	<0.015	0.048	9.2	24
8	Thilivanam thoppu	13.09.2023	Sea	Pre	5.9	7.59	4	32	38400	6	29160	16525	8	2040	240	<0.0008	0.06	<0.01	<0.1	<0.015	0.094	9.2	21
		24.09.2023		During	4.3	7.4	9	72	46900	12	34284	17860	20	3560	284	<0.0008	0.084	<0.01	<0.1	<0.015	0.119	9	24
		26.09.2023		Post	6.2	7.18	4	32	38200	6	28924	15920	8	1920	208	<0.0008	0.042	<0.01	<0.1	<0.015	0.069	9.3	26



**Analysis results (Physio-Chemical and Bacteriological Parameter) of different water bodies over Tamil Nadu State monitored during pre- and post-idol immersion activity during Ganesh Chaturthi - 2023**

**District : Tirunelveli**

SL. No	Sampling Location in Tirunelveli	Date of sampling	Type of water body	Immersion Sampling	DO (mg/L)	pH	BOD (mg/L)	COD (mg/L)	Conductivity (µmho/cm)	Turbidity (mg/L)	Total Dissolved Solids (mg/L)	Chlorides (mg/L)	Total Suspended Solids (mg/L)	Total Hardness (mg/L)	Total Alkalinity (mg/L)	Cadmium	Copper	Chromium Total	Manganese	Lead	Zinc	Fecal Coliform	Total Coliform
9	V.K Puram	13.09.2023	River	Pre	5.8	6.62	3	24	80	3	62	12	4	44	16	<0.0008	0.034	<0.01	<0.1	<0.015	0.028	11	26
		24.09.2023		During	4.6	6.48	9	72	380	6	280	90	14	128	24	<0.0008	0.063	<0.01	<0.1	<0.015	0.041	12	27
		26.09.2023		Post	6.1	6.78	3	24	96	3	72	15	4	40	12	<0.0008	0.023	<0.01	<0.1	<0.015	0.019	10	26
10	Cheranmahadevi	13.09.2023	River	Pre	5.7	6.6	3	24	56	2	46	12	4	28	4	<0.0008	0.016	<0.01	<0.1	<0.015	0.012	8.1	21
		24.09.2023		During	4.2	6.8	10	80	262	4	196	60	16	76	20	<0.0008	0.34	<0.01	<0.1	<0.015	0.032	8.3	24
		26.09.2023		Post	5.9	6.81	3	24	51	3	42	10	4	24	4	<0.0008	0.01	<0.01	<0.1	<0.015	0.015	9.1	26
11	Thirupudaimaruthur	13.09.2023	River	Pre	5.8	6.56	3	24	59	3	48	16	4	24	8	<0.0008	0.019	<0.01	<0.1	<0.015	0.015	6.1	17
		24.09.2023		During	4.6	6.89	8	72	196	5	152	55	10	62	14	<0.0008	0.029	<0.01	<0.1	<0.015	0.037	6.8	21
		26.09.2023		Post	6	6.92	3	24	55	3	46	14	4	20	4	<0.0008	0.016	<0.01	<0.1	<0.015	0.01	5.6	12
12	Gopalamudram	13.09.2023	River	Pre	5.6	6.63	4	32	68	3	54	10	4	28	12	<0.0008	0.012	<0.01	<0.1	<0.015	0.021	12	27
		24.09.2023		During	4.1	6.92	13	104	185	5	136	40	12	56	20	<0.0008	0.034	<0.01	<0.1	<0.015	0.04	12	26
		26.09.2023		Post	5.9	6.82	4	32	75	3	56	12	4	24	12	<0.0008	0.015	<0.01	<0.1	<0.015	0.014	14	31
13	Marutham Nagar	13.09.2023	River	Pre	5.7	6.66	3	24	71	3	56	10	4	28	12	<0.0008	0.019	<0.01	<0.1	<0.015	0.013	9.2	21
		24.09.2023		During	4.5	7.16	10	80	198	5	152	45	12	60	16	<0.0008	0.036	<0.01	<0.1	<0.015	0.035	10	25
		26.09.2023		Post	5.8	6.92	5	40	78	3	60	13	4	24	12	<0.0008	0.011	<0.01	<0.1	<0.015	0.016	9.1	24
14	Seevalaperi	14.09.2023	River	Pre	5	6.59	8	64	289	4	216	85	6	64	20	<0.0008	0.052	<0.01	<0.1	<0.015	0.024	14	33
		24.09.2023		During	4.2	7.2	16	128	465	7	342	110	10	140	28	<0.0008	0.074	<0.01	<0.1	<0.015	0.045	22	39
		26.09.2023		Post	4.9	6.81	6	48	170	4	132	45	4	56	16	<0.0008	0.045	<0.01	<0.1	<0.015	0.019	15	31
15	Karakurichikulam	14.09.2023	River	Pre	5.8	7.05	6	48	481	4	352	85	6	90	24	<0.0008	0.024	<0.01	<0.1	<0.015	0.021	14	32
		24.09.2023		During	4.3	7.58	13	104	570	7	428	120	12	170	32	<0.0008	0.049	<0.01	<0.1	<0.015	0.036	15	34
		26.09.2023		Post	5.8	6.92	4	32	362	4	272	55	6	80	20	<0.0008	0.019	<0.01	<0.1	<0.015	0.016	13	33
16	Vaagaikulam	24.09.2023	River	Pre	5.6	7.39	5	40	582	4	420	115	8	130	24	<0.0008	0.019	<0.01	<0.1	<0.015	0.024	17	38
		24.09.2023		During	4.1	7.02	12	96	690	7	516	160	14	210	32	<0.0008	0.036	<0.01	<0.1	<0.015	0.039	20	48
		26.09.2023		Post	5.8	7.1	3	24	470	4	352	90	6	120	16	<0.0008	0.013	<0.01	<0.1	<0.015	0.02	15	31
17	Township Kudankulam	24.09.2023	Sea	Pre	6.1	7.77	3	24	37800	7	27236	13860	20	1980	72	<0.0008	0.025	<0.01	<0.1	<0.015	0.036	5.6	12
		24.09.2023		During	4.3	7.41	5	40	47800	10	35380	18590	28	3260	248	<0.0008	0.039	<0.01	<0.1	<0.015	0.057	6.8	14
		26.09.2023		Post	6	7.32	4	32	38100	7	28960	14380	20	2120	68	<0.0008	0.018	<0.01	<0.1	<0.015	0.026	5.5	19.3

INFERENCE: There is no marked difference in the sampled loaction over the Tirunelveli sight, with refence to Preimmersion and Post Immersion ,that indicates pollution due to immersion of idol

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Analysis results (Physio-Chemical and Bacteriological Parameter) of different water bodies over Tirunelveli, Tenkasi, Kanyakumari monitored pre-, during & post -idol immersion activity during Ganesh Chaturthi - 2023																				District : TENKASI			
SL. No	Sampling Location in Tenkasi	Date of sampling	Type of water body	Immersion Sampling	DO (mg/L)	pH	BOD (mg/L)	COD (mg/L)	Conductivity (µmho/cm)	Turbidity (mg/L)	Total Dissolved Solids (mg/L)	Chlorides (mg/L)	Total Suspended Solids (mg/L)	Total Hardness (mg/L)	Total Alkalinity (mg/L)	Cadmium	Copper	Chromium Total	Manganese	Lead	Zinc	Fecal Coliform	Total Coliform
General Parameters															Heavy metal, mg/L								
1	Karupanathi	14.09.2023	River	Pre	5.8	7.12	4	32	197	4	134	21	4	28	12	<0.0008	0.009	<0.01	<0.1	<0.015	0.024	5.5	14
		20.09.2023		During	4.7	6.83	13	104	316	8	236	72	16	60	24	<0.0008	0.028	<0.01	<0.1	<0.015	0.049	6	17
		22.09.2023		Post	6	7.07	4	32	123	3	96	18	4	20	12	<0.0008	0.012	<0.01	<0.1	<0.015	0.018	6.8	17
2	Rayagiri pilaiyar manthaivar	14.09.2023	River	Pre	5.3	6.7	5	40	2730	5	2196	560	8	780	36	<0.0008	0.024	<0.01	<0.1	<0.015	0.018	6.1	13
		20.09.2023		During	4.3	6.85	14	112	3826	9	2796	690	20	828	52	<0.0008	0.045	<0.01	<0.1	<0.015	0.036	6	14
		22.09.2023		Post	5.5	6.99	3	24	2650	4	1984	490	6	640	28	<0.0008	0.02	<0.01	<0.1	<0.015	0.013	5.8	12
3	Harihara River	14.09.2023	River	Pre	5.7	7.23	4	32	191	6	136	25	6	52	20	<0.0008	0.016	<0.01	<0.1	<0.015	0.015	8.3	21
		19.09.2023		During	4.6	7.1	13	104	316	9	232	75	14	110	24	<0.0008	0.039	<0.01	<0.1	<0.015	0.036	10	25
		22.09.2023		Post	5.6	7.17	3	24	130	5	96	20	4	48	16	<0.0008	0.018	<0.01	<0.1	<0.015	0.012	8.2	22
4	Hanuman River	14.09.2023	River	Pre	5.9	7.06	4	32	484	5	356	82	6	192	32	<0.0008	0.011	<0.01	<0.1	<0.015	0.018	8.2	20
		19.09.2023		During	4.2	7.03	12	96	638	8	476	135	14	232	44	<0.0008	0.036	<0.01	<0.1	<0.015	0.033	13	25
		22.09.2023		Post	5.5	7.23	3	24	348	4	262	75	4	146	24	<0.0008	0.015	<0.01	<0.1	<0.015	0.033	10	24
5	Gundaru	14.09.2023	River	Pre	5.8	6.88	4	32	86	3	66	10	4	36	16	<0.0008	0.025	<0.01	<0.1	<0.015	0.024	3.6	20
		19.09.2023		During	4.1	6.82	14	112	196	5	152	55	10	68	20	<0.0008	0.042	<0.01	<0.1	<0.015	0.046	6.1	25
		22.09.2023		Post	5.9	7.14	3	24	83	3	62	12	4	32	12	<0.0008	0.019	<0.01	<0.1	<0.015	0.019	4	15
6	Sitaru	14.09.2023	River	Pre	5.5	6.96	4	32	314	4	218	27	8	170	16	<0.0008	0.028	<0.01	<0.1	<0.015	0.021	8.2	20
		19.09.2023		During	4.3	7.1	13	104	548	6	476	110	18	280	28	<0.0008	0.049	<0.01	<0.1	<0.015	0.035	11	25
		22.09.2023		Post	5.6	6.86	4	32	215	4	160	30	6	110	12	<0.0008	0.025	<0.01	<0.1	<0.015	0.017	8.3	24
7	Near Elephant Bridge	14.09.2023	River	Pre	5.3	6.87	6	48	389	3	248	36	10	160	20	<0.0008	0.026	<0.01	<0.1	<0.015	0.032	9.1	13
		19.09.2023		During	4.1	7.16	17	136	585	6	428	120	18	170	32	<0.0008	0.057	<0.01	<0.1	<0.015	0.074	9.2	17
		22.09.2023		Post	5.6	6.76	4	32	291	3	220	32	8	140	16	<0.0008	0.02	<0.01	<0.1	<0.015	0.028	9.2	31
8	Ramanathi	14.09.2023	River	Pre	5.9	6.94	3	24	81	3	60	12	4	24	12	<0.0008	0.017	<0.01	<0.1	<0.015	0.023	6.1	31
		19.09.2023		During	4.4	6.46	11	88	258	5	184	60	12	86	20	<0.0008	0.039	<0.01	<0.1	<0.015	0.052	10	24
		22.09.2023		Post	6.1	6.81	4	32	95	3	72	15	4	32	8	<0.0008	0.012	<0.01	<0.1	<0.015	0.026	6.8	20
9	Kadana River	14.09.2023	River	Pre	5.7	6.83	4	32	107	3	84	18	6	36	12	<0.0008	0.018	<0.01	<0.1	<0.015	0.025	8.2	21
		19.09.2023		During	4.5	6.76	12	96	260	6	196	65	14	104	20	<0.0008	0.042	<0.01	<0.1	<0.015	0.058	11	25
		22.09.2023		Post	5.5	6.74	4	32	85	3	66	15	4	32	8	<0.0008	0.015	<0.01	<0.1	<0.015	0.018	9.3	24

INFERENCE: There is no marked difference in the sampled loaction over the Tenkasi sight with refrence to Preimmersion and Post Immersion that indicates pollution due to immersion of idol.

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Chennai-600 032.



**Analysis results (Physio-Chemical and Bacteriological Parameter) of different water bodies over Tamil Nadu State monitored during pre- and post-idol immersion activity during Ganesh Chaturthi - 2023**

**District :  
KARUR**

S.No	Sampling Location in Chennai	Date of sampling	Type of water body	Pre/ Post immersion sampling	General Parameters											Heavy Metals						
					DO (mg/L)	pH	BOD (mg/L)	COD (mg/L)	Conductivity (µmho/cm)	Turbidity (mg/L)	Total Dissolved Solids (mg/L)	Chlorides (mg/L)	Total Suspended Solids (mg/L)	Total Hardness (mg/L)	Total Alkalinity (mg/L)	Cadmium	Cobalt	Copper	Chromium Total	Manganese	Lead	Zinc
1	Thavuttupalayam below Cauvery Bridge	19.09.2023	River Water Sample	Pre	6.3	8.06	<2.0	16	343	2	212	50	8	70	28	0.084	0.107	0.017	<0.010	0.063	0.078	0.103
		20.09.2023		During	6	7.67	2	24	363	3.04	256	65	10	90	32	0.094	0.121	0.023	<0.010	0.072	0.082	0.11
		25.09.2023		Post	5.3	7.17	3	24	396	3.47	268	70	10	120	40	0.112	0.148	0.051	<0.010	0.077	0.102	0.136
2	River Cauvery below Vangal - Mahnur Bridge	19.09.2023	River Water Sample	Pre	7	7.99	<2.0	8	321	<1.0	200	35	4	70	24	0.019	0.122	0.026	<0.010	0.043	0.041	0.096
		20.09.2023		During	6.8	7.81	2	16	340	1.12	232	45	6	90	28	0.025	0.144	0.034	<0.010	0.054	0.05	104
		25.09.2023		Post	6.4	7.66	2	24	356	1.39	244	45	8	110	36	0.048	0.144	0.045	<0.010	0.063	0.074	0.129
3	Kadambar Kovil at Kulithalai	19.09.2023	River Water Sample	Pre	7.2	7.86	3	24	414	<1.0	260	55	12	110	32	0.027	0.128	0.008	<0.010	0.024	0.026	0.172
		20.09.2023		During	6.7	8.06	3	24	451	3	308	70	16	130	36	0.034	0.153	0.01	<0.010	0.034	0.028	0.184
		25.09.2023		Post	6.6	7.52	3	32	482	4.12	320	80	16	170	48	0.038	0.182	0.022	<0.010	0.041	0.062	0.206

INFERENCE: There is no marked difference in the sampled loaction over the Karur sight ,with refence to Preimmersion and Post Immersion, that indicates pollution due to immersion of idol.

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Analysis results (Physio-Chemical and Bacteriological Parameter) of different water bodies over Tamil Nadu State monitored during pre- and post-idol immersion activity during Ganesh Chaturthi - 2023

District : MADURAI

S.No	Sampling Location	Date of sampling	Type of water body	Pre/ Post immersion sampling	General Parameters											Heavy Metals mg/L						Micro Biological		
					Color(Hazen Units)	DO (mg/L)	pH	BOD (mg/L)	COD (mg/L)	Conductivity (µmho/cm)	Turbidity (mg/L)	Total Dissolved Solids (mg/L)	Chlorides (mg/L)	Total Suspended Solids (mg/L)	Total Hardness (mg/L)	Total Alkalinity (mg/L)	Cadmium	Copper	Chromium Total	Manganese	Lead	Zinc	Fecal Coliform MPN/100ml	Total Coliform MPN/100ml
1	Sevanthikulam Kanmoi Thirupparankundram	15.09.2023	Kanmoi	Pre	<5	5.7	8.28	6	160	1694	80.9	1138	480	64	176	170	<0.0008	<0.0015	0.123	0.021	0.121	0.03	<1.8	14
		21.09.2023		During	<5	5.2	6.88	8	152	1680	100	1178	5.1	66	260	160	0.022	0.014	0.125	0.242	0.326	0.03	7.8	41
		22.09.2023		Post	10	5	6.69	9	32	1580	78	1094	610	60	264	152	0.022	0.097	0.13	0.235	0.316	0.46	7.8	41
2	Ayanpapakudi Kanmoi Avaniyapuram	15.09.2023	Kanmoi	Pre	<5	5.8	6.88	5	64	1532	182	1050	235	20	204	420	<0.0008	<0.0015	0.102	0.06	0.32	0.027	2	17
		20.09.2023		During	10	5	6.56	7	72	1528	32	1010	235	20	310	380	0.006	0.023	0.11	0.157	0.108	0.021	9.1	39
		22.09.2023		Post	10	4.9	6.8	10	80	2000	30	1600	335	24	420	400	0.019	0.018	0.124	0.297	0.335	0.02	11	49
3	Thirumohur Kanmoi Othakadai	15.09.2023	Kanmoi	Pre	<5	5.8	7.27	5	48	1212	23.8	836	265	34	188	190	<0.0008	<0.0015	0.131	0.222	0.14	0.252	<1.8	6.1
		20.09.2023		During	<5	5	6.51	7	72	1255	33	848	215	38	360	350	0.002	0.019	0.136	0.49	0.182	0.321	9.1	46
		22.09.2023		Post	<5	4.8	6.86	10	80	1870	30	1248	235	36	390	320	0.008	0.406	0.14	0.434	0.337	0.406	4.5	48
4	Dhravupathy Amman Kovil Theppakulam Kottampatti	15.09.2023	Theppakulam	Pre	<5	5.7	7.08	3	32	463	6.62	324	70	14	124	40	<0.0008	<0.0015	0.018	0.032	0.122	0.007	<1.8	10
		21.09.2023		During	<5	5	6.93	5	88	510	10	385	100	16	140	34	0.026	0.021	0.025	0.611	0.335	0.156	7.8	49
		22.09.2023		Post	<5	4.9	6.73	6	64	510	8	360	100	18	180	40	0.021	0.017	0.031	0.205	0.358	0.044	4.5	49
5	Konarkulam Kanmoi Kottampatti	15.09.2023	Kanmoi	Pre	<5	5.9	6.77	3	40	87	74.6	62	35	28	32	14	<0.0008	<0.0015	0.02	1.098	0.147	0.041	3.6	21
		19.09.2023		During	<5	5.9	6.42	2	16	83	72	60	30	82	32	10	<0.0008	<0.0015	0.016	0.126	0.149	0.082	6.1	24
		22.09.2023		Post	<5	5.9	6.31	3	8	140	70	98	30	80	120	30	0.023	0.018	0.02	0.294	0.349	0.29	4.5	47
6	Mankatti Theppakulam Melur	15.09.2023	Theppakulam	Pre	<5	5.8	7.16	6	8	1339	3.21	928	330	26	364	270	<0.0008	<0.0015	0.13	0.756	0.148	0.01	<1.8	6.8
		19.09.2023		During	<5	5	6.46	8	80	1393	12.2	948	300	34	330	300	<0.0008	<0.0015	0.229	0.882	0.225	0.079	1.8	7.8
		22.09.2023		Post	<5	4.9	6.72	10	112	1480	10	1040	400	40	280	210	0.019	0.01	0.231	0.294	0.34	0.082	4.5	43



Analysis results (Physio-Chemical and Bacteriological Parameter) of different water bodies over Tamil Nadu State monitored during pre- and post-idol immersion activity during Ganesh Chaturthi - 2023

District : MADURAI

S.No	Sampling Location	Date of sampling	Type of water body	Pre/ Post immersion sampling	General Parameters											Heavy Metals mg/L						Micro Biological		
					Color(Hazen Units)	DO (mg/L)	pH	BOD (mg/L)	COD (mg/L)	Conductivity (umho/cm)	Turbidity (mg/L)	Total Dissolved Solids (mg/L)	Chlorides (mg/L)	Total Suspended Solids (mg/L)	Total Hardness (mg/L)	Total Alkalinity (mg/L)	Cadmium	Copper	Chromium Total	Manganese	Lead	Zinc	Fecal Coliform MPN/100ml	Total Coliform MPN/100ml
7	Usilampatti Kanmoi	15.09.2023	Kanmoi	Pre	<5	5.9	7.04	5	88	1257	2.54	870	205	18	272	108	<0.0008	<0.0015	0.133	0.348	0.133	0.007	<1.8	7.8
		20.09.2023		During	<5	5	7.14	8	72	1083	44	748	170	36	270	340	0.001	0.075	0.135	0.176	0.057	0.189	4.5	48
		22.09.2023		Post	<5	4.8	6.68	10	56	670	40	464	40	18	280	110	0.016	0.013	0.03	0.251	0.346	0.036	2	33
8	Subramania Swamy Kovil Saravanapoigai Kulam Peraiyur	15.09.2023	Kulam	Pre	<5	5.7	5.2	2	40	107	9.29	76	30	14	44	18	<0.0008	<0.0015	0.0363	0.318	0.115	0.042	<1.8	17
		18.09.2023		During	10	5.7	7.16	3	40	126	638	80	20	104	120	52	<0.0008	<0.0015	0.89	0.829	0.142	0.142	14	33
		29.09.2023		Post	10	5.6	8.22	3	8	91	9	68	40	14	28	8	0.003	0.025	0.028	0.228	0.044	0.111	6.8	28
9	Kumaram Kanmai Vadipatti	15.09.2023	Kanmai	Pre	<5	6	6.67	5	64	676	123	464	115	58	184	64	<0.0008	<0.0015	0.079	0.5757	0.139	0.059	<1.8	7.8
		20.09.2023		During	10	5.8	6.4	7	72	640	242	436	85	88	130	104	0.004	0.039	0.086	0.686	0.142	0.063	14	47
		22.09.2023		Post	10	5	7.52	10	80	1010	200	710	280	80	200	140	0.023	0.048	0.094	0.453	0.362	0.082	11	43
10	Usilampatti Road Kundaru Kanmai Thirumangalam	15.09.2023	Kanmai	Pre	<5	5.8	7.33	5	64	972	19	676	170	20	204	84	<0.0008	<0.0015	0.138	0.119	0.131	0.076	<1.8	6.8
		20.09.2023		During	<5	5.2	7.53	8	32	957	26	652	205	22	192	208	0.0087	0.015	0.14	0.237	0.164	0.101	9.1	49
		22.09.2023		Post	<5	4.8	7.43	10	56	964	24	676	120	24	180	150	0.021	0.015	0.152	0.262	0.329	0.037	8.6	48
11	Vaigai Thaikkal Palam Petchiamman Padithurai	18.09.2023	Palam	Pre	<5	5.6	7.55	3	8	832	33.9	568	130	40	172	148	<0.0008	<0.0015	0.128	0.131	0.137	0.114	<1.8	4.5
		19.09.2023		During	<5	5.9	6.68	4	16	952	40	654	155	56	210	196	<0.0008	<0.0015	0.02	0.265	0.143	0.249	6.1	21
		22.09.2023		Post	<5	5.3	6.62	6	120	740	32	510	340	50	320	240	0.023	0.153	0.025	0.287	0.336	0.28	8.7	48

INFERENCE: There is no marked difference in the sampled loaction over the Madurai sight, with refence to Preimmersion and Post Immersion , that indicates pollution due to immersion of idol.

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priyanka.k.

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Analysis results (Physio-Chemical and Bacteriological Parameter) of different water bodies over Tamil Nadu State monitored during pre- and post-idol immersion activity during Ganesh Chaturthi - 2023																						District : SIVAGANGAI			
S.No	Sampling Location	Date of sampling	Type of water body	Pre/Post Immersion sampling	General Parameters											Heavy Metals in mg/L					Micro Biological				
					Color(Haze n Units)	DO (mg/L)	pH	BOD (mg/L)	COD (mg/L)	Conductivity (umho/cm)	Turbidity (mg/L)	Total Dissolved Solids (mg/L)	Chlorides (mg/L)	Total Suspended Solids (mg/L)	Total Hardness (mg/L)	Total Alkalinity (mg/L)	Cadmium	Copper	Chromium Total	Manganese	Lead	Zinc	Fecal Coliform ,MPN/100ml	Total Coliform , MPN/100ml	
1	PARUPOORANI, KARAIKUDI	14.09.2023	OORANI	Pre	<5	5.9	8.18	3	56	746	5.54	498	174.9	44	96	68	<0.0008	<0.0015	0.017	0.104	0.12	0.022	<1.8	9.2	
		20.09.2023		During	<5	4.6	7.09	5	64	822	22	576	350	32	112	32	0.009	0.085	0.023	0.297	0.191	0.066	9.1	48	
		26.09.2023		Post	<5	3.8	6.55	8	72	1524	35	654	460	32	220	140	0.003	0.028	0.097	10.89	0.038	0.383	11	58	
2	SINGAMPOORANI OORANI	14.09.2023	OORANI	Pre	<5	5.8	6.75	2	96	208	11	138	40	22	52	24	<0.0008	<0.0015	0.014	0.076	0.129	0.027	<1.8	9.2	
		20.09.2023		During	<5	4.1	6.35	10	120	226	22	160	50	20	76	30	0.003	0.022	0.023	0.174	0.201	0.031	4.5	46	
		26.09.2023		Post	<5	3.6	6.6	10	88	464	8	540	270	38	144	76	0.009	0.083	0.245	4.653	0.243	0.402	17	49	
3	MARUTHANGA NALUR OORANI	14.09.2023	OORANI	Pre	<5	5.8	6.74	2	8	428	802	296	70	56	92	26	<0.0008	<0.0015	0.028	0.148	0.121	0.099	1.8	6.8	
		22.09.2023		During	<5	6	6.9	2	8	209	91	148	255	10	132	120	0.024	0.023	0.032	0.167	0.384	0.373	9.1	49	
		26.09.2023		Post	<5	5.5	6.42	4	24	216	96.8	152	65	10	40	64	0.003	0.031	0.054	0.287	0.011	0.357	8.1	48	
4	ALAGARKULAM, MANAMADURAI	14.09.2023	KULAM	Pre	<5	5.7	6.34	3	16	258	3.32	172	30	54	84	22	<0.0008	<0.0015	0.018	0.106	0.142	0.137	1.8	14	
		20.09.2023		During	<5	5.1	5.85	4	32	284	39	198	35	28	192	72	0.006	0.082	0.026	0.356	0.168	0.17	9.1	32	
		26.09.2023		Post	<5	4.8	6.12	6	48	672	18	474	425	14	250	200	0.002	0.036	0.048	3.926	0.016	0.376	6.1	43	
5	SIVAGANGAI THEPPAKULAM	14.09.2023	KULAM	Pre	<5	5.9	8.4	5	112	990	22.7	650	275	48	120	42	<0.0008	<0.0015	0.021	0.047	0.146	0.122	<1.8	9.2	
		22.09.2023		During	<5	4.8	7.92	8	136	831	40.7	586	290	12	168	96	0.033	0.012	0.028	0.076	0.37	0.123	2	9.2	
		26.09.2023		Post	<5	4.8	7.13	15	240	2150	96	1520	445	22	310	220	0.024	0.04	0.04	12.908	0.473	0.423	1.8	43	
6	THATTANKULAM,VAIGAI RIVER	16.09.2023	RIVER	Pre	<5	5.7	7.75	3	8	1980	5.67	1362	360	20	28	24	<0.0008	<0.0015	0.088	0.142	0.136	0.045	<1.8	14	
		21.09.2023		During	<5	4	7.34	6	72	1577	10	1086	285	30	116	52	0.009	0.081	0.11	0.43	0.231	0.161	6.8	47	
		26.09.2023		Post	<5	4.5	6.79	10	88	865	9	598	380	16	180	112	0.002	0.028	0.124	0.32	0.004	0.423	4.5	49	

INFERENCE: There is no marked difference in the sampled loaction over the Sivagangai sight with refence to Preimmersion and Post Immersion that indicates pollution due to immersion of idol.

*[Signature]*  
30/10/23  
ES  
priyanka.k

*[Signature]*  
DCSO (ABW)

DD (Labs) i/c

DEPUTY DIRECTOR (LABS)  
Tamilnadu Pollution Control Board  
76, Mount Salai, Guindy,  
Chennai-600 032.



Analysis results (Physio-Chemical and Bacteriological Parameter) of different water bodies over Tamil Nadu State monitored during pre- and post-idol immersion activity during Ganesh Chaturthi - 2023

District : Trichy

Sl. No.	Sampling Location in Trichy Jurisdiction	Date of sampling	Type of water body	Pre/ During/ Post	DO (mg/L)	pH	BOD (mg/L)	COD	Conductivity	Turbidity	TDS	Chloride	TSS	Total Hardness	Total Alkalinity	Heavy Metals in mg/l					
																Cadmium	Copper	Chromium	Manganese	Lead	Zinc
1	Trichy	14.09.2023	Thuvaranguruchi -Boothanayagi Amman temple	Pre	6.7	6.48	<2	16	186	8.13	126	24	14	82	18	0.058	0.193	<0.010	0.136	0.005	0.592
		21.09.2023		During	6.5	7.92	09	56	890	23.8	648	165	28	162	96	0.064	0.219	0.019	0.159	0.027	0.796
		26.09.2023		Post	5.9	6.35	3.0	24	318	15.8	232	35	28	96	76	0.118	0.474	0.023	0.638	0.941	0.647
2	Trichy	14.09.2023	Manikandam - Manikandam Pond	Pre	7.9	7.90	06	48	897	12.88	648	158	56	196	96	0.074	0.077	<0.010	0.231	0.069	0.693
		21.09.2023		During	7.3	6.61	10	64	312	27.5	238	20	26	80	02	0.091	0.108	0.014	0.294	0.081	0.816
		26.09.2023		Post	6.3	7.68	4.8	32	893	19.38	656	125	26	176	74	0.140	0.544	0.019	0.751	1.443	0.946
3	Trichy	14.09.2023	Somarasapettai- Allithurai- Uyyankondan Canal	Pre	8.1	7.56	2.6	24	820	12.97	584	128	46	220	64	0.055	0.089	<0.010	0.027	0.029	0.093
		21.09.2023		During	7.2	7.54	06	48	920	6.06	680	130	14	142	64	0.067	0.104	0.014	0.044	0.036	0.118
		26.09.2023		Post	6.6	7.75	6.4	40	667	5.10	486	80	04	168	88	0.088	0.171	0.019	0.175	0.148	0.259
4	Trichy	14.09.2023	Jeeyapuram - Jeeyapuram - Cauvery River	Pre	8.4	7.52	<2	16	390	4.93	280	56	12	140	46	0.019	0.069	0.014	0.009	0.048	0.094
		21.09.2023		During	8.3	7.62	<2	16	389	6.26	282	54	04	102	76	0.026	0.088	0.014	0.016	0.049	0.156
		26.09.2023		Post	7.3	7.86	2.8	24	395	4.78	286	51	08	112	82	0.043	0.135	0.019	0.186	0.297	0.256
5	Trichy	14.09.2023	Pettavaithalai - Cauvery River	Pre	6.7	7.58	05	40	900	12.11	628	136	26	184	74	0.023	0.099	<0.010	0.010	0.072	0.099
		21.09.2023		During	6.6	7.60	07	48	948	28.0	686	64	26	202	82	0.031	0.113	0.023	0.021	0.083	0.231
		26.09.2023		Post	5.8	7.58	6.3	40	723	14.23	546	165	12	164	80	0.046	0.167	0.028	0.183	0.212	0.356



Analysis results (Physio-Chemical and Bacteriological Parameter) of different water bodies over Tamil Nadu State monitored during pre- and post-idol immersion activity during Ganesh Chaturthi - 2023

District : Trichy

Sl. No.	Sampling Location in Trichy Jurisdiction	Date of sampling	Type of water body	Pre/ During/ Post	DO (mg/L)	pH	BOD (mg/L)	COD	Conductivity	Turbidity	TDS	Chloride	TSS	Total Hardness	Total Alkalinity	Heavy Metals in mg/l					
																Cadmium	Copper	Chromium	Manganese	Lead	Zinc
6	Trichy	14.09.2023	Jeeyapuram - Iyalamman Patidurai- Cauvery River	Pre	8.0	7.75	<2	16	382	5.08	278	50	18	118	68	0.018	0.090	0.019	0.021	0.070	0.108
		21.09.2023		During	7.6	7.65	2.8	24	390	5.64	284	50	10	110	58	0.029	0.137	0.023	0.033	0.084	0.143
		26.09.2023		Post	6.7	7.76	2.6	24	381	5.38	274	58	06	120	78	0.161	0.186	0.028	0.183	0.196	0.298
7	Trichy	15.09.2023	Manachanallur - Nochiyam Kollidam River	Pre	6.5	7.65	04	32	547	5.26	394	120	14	152	78	0.035	0.076	<0.010	0.037	0.119	0.112
		22.09.2023		During	6.3	7.51	06	40	531	6.86	398	68	10	102	74	0.056	0.094	0.019	0.054	0.149	0.239
		27.09.2023		Post	6.0	8.62	7.2	48	527	8.17	388	72	08	168	128	0.086	0.139	0.023	0.147	0.205	0.267
8	Trichy	15.09.2023	Vathalai- Thudaiyur Kollidam River	Pre	6.9	7.60	04	32	472	4.26	348	65	16	126	72	0.042	0.142	<0.010	0.051	0.126	0.109
		22.09.2023		During	6.5	7.62	7.6	40	420	7.25	308	52	06	126	64	0.056	0.196	0.014	0.070	0.139	0.210
		27.09.2023		Post	6.0	7.63	2.8	24	443	4.28	312	84	06	128	78	0.090	0.234	0.019	0.145	0.335	0.316
9	Trichy	15.09.2023	Vathalai - Cauvery River	Pre	6.7	7.55	2.8	24	369	4.29	276	58	20	118	88	0.024	0.064	<0.010	0.017	0.016	0.237
		20.09.2023		During	6.5	7.51	08	40	409	11.12	292	60	10	92	68	0.033	0.081	0.014	0.031	0.021	0.316
		27.09.2023		Post	6.1	7.92	03	24	394	5.16	286	36	08	106	98	0.042	0.096	0.014	0.143	0.025	0.348
10	Trichy	15.09.2023	Musiri - parisalthurai - Cauvery River	Pre	8.7	7.60	<2	16	437	5.23	316	72	20	102	84	0.025	0.069	<0.010	0.055	0.021	0.169
		22.09.2023		During	6.6	7.71	04	32	806	7.18	584	135	10	182	74	0.038	0.091	0.019	0.063	0.039	0.231
		27.09.2023		Post	6.4	8.32	2.8	24	489	4.53	358	59	08	148	120	0.058	0.296	0.023	0.147	0.069	0.365



Analysis results (Physio-Chemical and Bacteriological Parameter) of different water bodies over Tamil Nadu State monitored during pre- and post-idol immersion activity during Ganesh Chaturthi - 2023

District : Trichy

Sl. No.	Sampling Location in Trichy Jurisdiction	Date of sampling	Type of water body	Pre/ During/ Post	DO (mg/L)	pH	BOD (mg/L)	COD	Conductivity	Turbidity	TDS	Chloride	TSS	Total Hardness	Total Alkalinity	Heavy Metals in mg/l					
																Cadmium	Copper	Chromium	Manganese	Lead	Zinc
11	Trichy	15.09.2023	Thottiyam - Thiruengoimalai-Cauvery river	Pre	7.3	7.54	2.9	24	371	4.29	268	60	14	94	66	0.040	0.076	<0.010	0.031	0.052	0.179
		22.09.2023		During	6.9	7.12	3.2	24	465	6.67	338	65	10	124	30	0.061	0.091	0.014	0.040	0.059	0.215
		27.09.2023		Post	6.3	7.89	4.4	32	491	3.25	352	50	04	140	82	0.094	0.163	0.028	0.150	0.086	0.169
12	Trichy	15.09.2023	Kattuputhur - Cauvery River	Pre	8.9	7.60	<2	16	366	6.21	258	58	18	108	64	0.058	0.131	<0.010	0.061	0.033	0.083
		22.09.2023		During	7.3	7.21	2.6	16	415	6.93	298	54	08	116	36	0.078	0.163	0.014	0.089	0.044	0.169
		27.09.2023		Post	6.7	7.59	3.6	24	457	3.98	330	60	04	132	72	0.096	0.198	0.019	0.141	0.093	0.268
13	Trichy	15.09.2023	Uppiliyapuram-Puliyancholai River	Pre	7.7	7.180	<2	08	85	4.59	62	13	12	42	06	<0.0008	<0.0015	<0.010	0.010	<0.015	<0.0015
		22.09.2023		During	7.3	6.92	<2	08	79	5.2	56	14	04	28	14	0.010	0.010	<0.010	0.012	<0.015	<0.0015
		27.09.2023		Post	6.9	8.34	02	16	434	1.90	312	55	02	118	120	0.048	0.030	<0.010	0.140	<0.015	0.067
14	Trichy	15.09.2023	Manachanallur - Pullambadi Vaaikkal	Pre	7.0	7.61	2.2	16	374	7.59	270	56	20	96	68	0.015	0.073	<0.010	0.033	<0.015	0.068
		20.09.2023		During	6.9	7.55	04	32	440	11.56	320	60	08	128	76	0.023	0.101	0.014	0.051	0.016	0.103
		27.09.2023		Post	6.2	8.21	03	24	408	3.76	296	49	04	142	118	0.045	0.168	0.019	0.136	0.065	0.367
15	Trichy	15.09.2023	River Cauvery at Vengur	Pre	7.4	7.26	<2	16	372	6.86	264	64	12	106	68	<0.0008	0.073	<0.010	0.021	<0.015	<0.0015
		20.09.2023		During	7.2	8.20	2.2	16	416	5.89	308	55	04	118	106	0.009	0.078	<0.010	0.029	<0.015	0.044
		26.09.2023		Post	6.9	7.56	2.6	24	445	4.63	322	65	04	136	82	0.045	0.105	0.014	0.203	0.240	0.069



Analysis results (Physio-Chemical and Bacteriological Parameter) of different water bodies over Tamil Nadu State monitored during pre- and post-idol immersion activity during Ganesh Chaturthi - 2023

District : Trichy

Sl. No.	Sampling Location in Trichy Jurisdiction	Date of sampling	Type of water body	Pre/ During/ Post	DO (mg/L)	pH	BOD (mg/L)	COD	Conductivity	Turbidity	TDS	Chloride	TSS	Total Hardness	Total Alkalinity	Heavy Metals in mg/l					
																Cadmium	Copper	Chromium	Manganese	Lead	Zinc
16	Trichy	15.09.2023	River Cauvery at Sarkarpalayam	Pre	7.2	7.41	2.7	24	390	7.04	272	70	14	112	72	<0.0008	0.081	<0.010	0.027	<0.015	0.009
		20.09.2023		During	7.0	7.61	2.6	24	1632	5.76	1236	215	04	280	94	0.011	0.094	<0.010	0.036	<0.015	0.056
		26.09.2023		Post	6.7	7.60	2.8	24	495	3.40	358	73	02	146	92	0.023	0.120	0.014	0.211	0.235	0.095
17	Trichy	15.09.2023	River Kollidam at Anbil	Pre	7.3	7.68	3.8	32	541	7.80	396	86	16	160	86	<0.0008	0.097	<0.010	0.033	<0.015	<0.0015
		20.09.2023		During	7.1	7.80	6.3	48	590	6.20	436	90	08	110	98	0.010	0.106	<0.010	0.040	<0.015	0.051
		26.09.2023		Post	6.5	7.40	4.8	32	666	5.16	490	80	06	152	80	0.029	0.196	0.014	0.215	0.236	0.072
18	Trichy	15.09.2023	River Kollidam at Senkaraiyur	Pre	7.1	7.55	2.7	24	639	7.59	474	94	16	136	68	<0.0008	0.042	<0.010	0.013	<0.015	0.086
		21.09.2023		During	7.0	7.56	2.3	24	634	8.46	468	84	12	140	72	0.011	0.110	<0.010	0.041	<0.015	0.193
		26.09.2023		Post	6.7	7.78	3.6	32	589	5.16	438	81	06	166	78	0.023	0.180	0.014	0.198	0.254	0.231
19	Trichy	15.09.2023	Pullambadi Vaikkal	Pre	7.6	7.61	2.6	24	411	7.26	290	70	20	128	76	<0.0008	0.028	<0.010	0.019	0.015	0.078
		21.09.2023		During	7.3	7.62	2.1	16	438	8.12	318	60	08	126	76	0.016	0.053	0.014	0.052	<0.015	0.053
		26.09.2023		Post	6.8	7.81	4.2	32	519	11.26	398	80	10	162	84	0.058	0.118	0.014	0.204	0.259	0.156
20	Trichy	15.09.2023	Punjai Sangenthi Pullambadi Vaikkal	Pre	7.8	7.56	<2	16	366	6.26	258	72	14	94	74	<0.0008	0.021	<0.010	0.011	<0.015	0.109
		21.09.2023		During	7.4	7.53	2.5	24	604	8.31	436	78	10	138	74	0.010	0.069	<0.010	0.038	<0.015	0.106
		26.09.2023		Post	6.4	7.75	3.2	24	498	8.11	362	83	08	146	80	0.067	0.099	0.014	0.193	0.268	0.133



Analysis results (Physio-Chemical and Bacteriological Parameter) of different water bodies over Tamil Nadu State monitored during pre- and post-idol immersion activity during Ganesh Chaturthi - 2023

District : Trichy

Sl. No.	Sampling Location in Trichy Jurisdiction	Date of sampling	Type of water body	Pre/ During/ Post	DO (mg/L)	pH	BOD (mg/L)	COD	Conductivity	Turbidity	TDS	Chloride	TSS	Total Hardness	Total Alkalinity	Heavy Metals in mg/l					
																Cadmium	Copper	Chromium	Manganese	Lead	Zinc
21	Trichy	15.09.2023	Punjai Sangenthi Lake at Pullampadi Vaikkal	Pre	7.7	7.41	3.2	24	596	7.85	436	102	18	152	62	0.017	0.160	<0.010	0.054	<0.015	0.086
		21.09.2023		During	6.9	7.82	5.6	40	601	13.8	446	70	14	152	38	0.021	0.216	0.014	0.069	<0.015	0.103
		26.09.2023		Post	6.4	7.65	4.6	32	581	12.18	436	66	14	166	86	0.070	0.460	0.019	0.198	0.284	0.108
22	Trichy	15.09.2023	Kollidam River at Idaiyatrumangalam	Pre	7.2	7.60	3.6	24	580	7.14	416	82	20	148	70	0.009	0.126	<0.010	0.061	<0.015	0.099
		21.09.2023		During	7.1	7.60	04	32	420	7.30	296	66	10	98	96	0.016	0.096	0.019	0.073	<0.015	0.101
		26.09.2023		Post	6.6	7.55	3.2	24	550	4.12	398	63	04	154	80	0.076	0.199	0.023	0.190	0.277	0.176
23	Trichy	15.09.2023	Mamundi River at Pothamettupatti Manapparai	Pre	7.5	7.48	5.6	40	1600	11.46	1124	324	32	380	78	0.041	0.219	<0.010	0.080	<0.015	0.198
		21.09.2023		During	7.0	7.54	7.2	48	734	8.25	518	72	10	164	82	0.051	0.253	0.023	0.091	<0.015	0.234
		26.09.2023		Post	6.5	7.45	6.4	40	1233	8.16	890	250	08	328	78	0.068	0.458	0.028	0.199	0.306	0.281
24	Trichy	15.09.2023	Ponnaiyar Dam at Vaiyampatti	Pre	7.2	7.56	10	56	442	18.7	318	70	48	140	66	<0.0008	0.136	<0.010	0.011	0.015	0.369
		21.09.2023		During	7.0	7.59	08	40	396	22.7	284	65	20	104	80	0.016	0.152	0.019	0.029	0.018	0.569
		26.09.2023		Post	6.5	7.60	6.4	40	448	18.56	322	70	22	134	86	0.092	0.342	0.023	0.610	0.905	0.668
25	Trichy	15.09.2023	Edaiyapatti Pond at Puthanatham	Pre	7.6	7.52	8.0	40	786	13.3	558	164	20	182	64	<0.0008	0.147	<0.010	0.015	0.021	0.468
		21.09.2023		During	7.2	7.64	05	32	440	12.31	324	70	18	102	94	0.021	0.163	0.023	0.049	0.031	0.661
		26.09.2023		Post	6.7	7.56	7.6	48	1647	28.56	1228	400	30	268	92	0.131	0.186	0.028	0.886	0.350	0.697



Analysis results (Physio-Chemical and Bacteriological Parameter) of different water bodies over Tamil Nadu State monitored during pre- and post-idol immersion activity during Ganesh Chaturthi - 2023

District : Trichy

Sl. No.	Sampling Location in Trichy Jurisdiction	Date of sampling	Type of water body	Pre/ During/ Post	DO (mg/L)	pH	BOD (mg/L)	COD	Conductivity	Turbidity	TDS	Chloride	TSS	Total Hardness	Total Alkalinity	Heavy Metals in mg/l					
																Cadmium	Copper	Chromium	Manganese	Lead	Zinc
26	Trichy	15.09.2023	Valanadu - Valanadu Village Pond	Pre	7.4	7.16	<2	16	254	12.8	184	56	36	72	32	<0.0008	<0.0015	<0.010	0.010	0.015	0.137
		21.09.2023		During	6.8	7.80	2.7	24	324	2.21	228	50	04	108	84	0.010	0.053	<0.010	0.024	0.021	0.246
		26.09.2023		Post	6.6	7.76	2.5	24	374	3.21	270	27	06	104	72	0.275	0.574	0.019	0.759	1.139	0.684
27	Trichy	20.09.2023	Sri rangam - Cauvery river	Pre	7.6	7.66	4.0	32	408	4.16	296	70	12	102	74	<0.0008	0.056	<0.010	0.023	<0.015	0.077
		20.09.2023		During	7.4	7.48	08	56	435	8.48	312	56	06	114	54	0.012	0.093	<0.010	0.018	0.018	0.117
		26.09.2023		Post	6.9	7.68	3.2	24	447	4.16	320	45	04	146	84	0.046	0.102	0.014	0.210	0.228	0.269
28	Thanjavur	13.09.2023	River Vadavar at Karanthi	Pre	6.5	7.50	2.8	32	564	8.12	416	66	24	158	46	<0.0008	0.055	<0.010	0.011	0.087	0.067
		20.09.2023		During	6.3	7.61	06	40	664	10.82	496	62	14	136	98	0.025	0.096	0.014	0.024	0.094	0.188
		25.09.2023		Post	5.5	7.28	5.6	40	509	14.19	364	67	10	108	54	0.031	0.103	0.014	0.048	0.120	0.220
29	Thanjavur	13.09.2023	River Cauvery at Thiruvaiyaru	Pre	7.8	7.58	2.1	24	379	4.48	274	42	12	128	62	<0.0008	0.036	<0.010	0.013	0.058	0.074
		22.09.2023		During	7.2	7.51	2.8	24	481	7.11	346	68	08	126	58	0.016	0.058	0.014	0.028	0.073	0.179
		25.09.2023		Post	6.5	7.10	2.8	16	434	14.36	316	54	12	96	18	0.028	0.063	0.019	0.131	0.114	0.245
30	Thanjavur	14.09.2023	Bay of Bengal at Mallipattinam	Pre	6.7	8.52	18.9	*	44600	12.86	30600	14995	84	11600	152	0.126	0.123	0.014	0.061	0.088	0.152
		20.09.2023		During	6.5	8.50	18	*	46530	43.31	32846	15496	124	10600	186	0.134	0.184	0.019	0.079	0.091	0.236
		25.09.2023		Post	6.1	8.38	16.4	*	38600	14.13	27820	12996	18	11600	256	0.180	0.234	0.023	0.131	0.534	0.446



Analysis results (Physio-Chemical and Bacteriological Parameter) of different water bodies over Tamil Nadu State monitored during pre- and post-idol immersion activity during Ganesh Chaturthi - 2023

District : Trichy

Sl. No.	Sampling Location in Trichy Jurisdiction	Date of sampling	Type of water body	Pre/ During/ Post	DO (mg/L)	pH	BOD (mg/L)	COD	Conductivity	Turbidity	TDS	Chloride	TSS	Total Hardness	Total Alkalinity	Heavy Metals in mg/l					
																Cadmiu m	Copper	Chromi um	Mangan ese	Lead	Zinc
31	Thanjavur	14.09.2023	River Veera Cholan at Aduthurai	Pre	6.5	7.74	2.8	32	405	6.34	292	32	20	152	76	0.006	0.099	<0.010	0.008	0.084	0.096
		19.09.2023		During	6.4	7.46	03	24	406	10.21	298	55	12	102	86	0.026	0.103	0.014	0.021	0.091	0.196
		25.09.2023		Post	5.2	7.40	06	40	1045	13.89	786	100	16	168	58	0.036	0.172	0.019	0.083	0.094	0.237
32	Thanjavur	14.09.2023	River Cauvery at Kumbakonam	Pre	6.1	7.82	2.3	24	395	7.19	288	56	20	140	78	0.012	0.051	<0.010	0.013	0.029	0.090
		19.09.2023		During	6.0	7.56	7.8	64	383	11.46	286	50	14	136	68	0.026	0.063	0.014	0.023	0.031	0.169
		25.09.2023		Post	5.4	7.08	8.6	72	409	12.38	312	51	10	96	42	0.084	0.077	0.014	0.080	0.035	0.173
33	Pudukkottai	15.09.2023	Aranthangi Veeramakali amman Kulam	Pre	6.6	7.08	8.0	40	625	11.27	498	98	20	198	50	0.015	0.092	0.014	0.018	0.087	0.102
		21.09.2023		During	6.4	7.95	08	56	694	13.36	514	72	14	152	98	0.026	0.108	0.019	0.028	0.103	0.210
		26.09.2023		Post	5.8	8.19	10	64	750	15.12	546	100	16	154	122	0.034	0.128	0.023	0.039	0.128	0.269
34	Pudukkottai	15.09.2023	Panangulam therku Udaiyarpuram Oorani	Pre	6.9	7.64	10	72	1100	12.16	782	104	74	204	82	0.074	0.628	0.023	0.190	0.491	0.833
		21.09.2023		During	6.5	7.61	12	64	1142	7.24	826	186	26	156	56	0.081	0.721	0.028	0.210	0.596	0.913
		26.09.2023		Post	6.0	7.91	14	72	1286	20.8	930	248	22	218	94	0.102	0.736	0.032	0.235	0.798	0.986
35	Pudukkottai	15.09.2023	Kulamangalam Periyakulam	Pre	6.7	7.36	<2	16	241	5.36	176	68	10	72	48	0.120	0.719	<0.010	0.313	0.639	0.934
		21.09.2023		During	6.4	6.57	<2	16	103	2.48	74	20	02	48	20	0.131	0.798	0.014	0.416	0.681	1.036
		26.09.2023		Post	5.9	6.81	2.8	24	163	2.94	120	24	02	48	12	0.146	0.816	0.019	0.448	0.786	0.132



Analysis results (Physio-Chemical and Bacteriological Parameter) of different water bodies over Tamil Nadu State monitored during pre- and post-idol immersion activity during Ganesh Chaturthi - 2023

District : Trichy

Sl. No.	Sampling Location in Trichy Jurisdiction	Date of sampling	Type of water body	Pre/ During/ Post	DO (mg/L)	pH	BOD (mg/L)	COD	Conductivity	Turbidity	TDS	Chloride	TSS	Total Hardness	Total Alkalinity	Heavy Metals in mg/l					
																Cadmium	Copper	Chromium	Manganese	Lead	Zinc
36	Pudukkottai	15.09.2023	Pulichangadu Pulichangadu Kulam	Pre	6.5	7.51	2.4	24	584	8.19	432	132	24	180	84	0.031	0.513	<0.010	0.015	0.206	0.120
		21.09.2023		During	6.3	7.86	3.2	24	545	11.32	394	98	16	124	86	0.051	0.619	0.019	0.029	0.248	0.326
		26.09.2023		Post	5.8	8.21	04	32	587	15.91	418	115	18	158	118	0.057	0.624	0.023	0.137	0.256	0.356
37	Pudukkottai	15.09.2023	Pulichankadu Kaikatti Anavayai Mookarai pillaiyar Kovil Oorani	Pre	6.8	7.59	2.8	32	736	4.36	526	166	22	196	76	0.035	0.146	<0.010	0.021	0.183	0.116
		21.09.2023		During	6.4	7.65	7.6	40	756	6.18	548	126	10	160	66	0.046	0.183	0.019	0.053	0.198	0.219
		26.09.2023		Post	6.1	8.12	8.4	56	789	14.3	568	136	16	168	120	0.058	0.206	0.019	0.118	0.209	0.239
38	Pudukkottai	16.09.2023	Alangudi-Chettikulam	Pre	7.1	7.62	10	56	1372	7.64	998	260	18	272	78	0.021	0.078	0.014	0.031	0.019	0.296
		20.09.2023		During	6.4	7.50	12	72	1442	8.42	1018	220	08	252	54	0.033	0.098	0.019	0.036	0.040	0.369
		26.09.2023		Post	6.0	7.82	14	80	1496	8.68	1080	360	12	268	84	0.054	0.104	0.023	0.106	0.044	0.374
39	Pudukkottai	16.09.2023	Thiruvarankulam-Theppakulam	Pre	7.0	7.55	08	40	892	13.21	642	185	28	186	74	0.011	0.080	<0.010	0.027	0.013	0.190
		20.09.2023		During	6.6	7.40	15	80	883	12.86	658	182	16	150	96	0.027	0.088	0.023	0.039	0.044	0.298
		26.09.2023		Post	6.2	7.51	18	88	960	16.2	692	175	14	174	98	0.038	0.108	0.023	0.092	0.056	0.306
40	Pudukkottai	16.09.2023	Pudukkottai-Pudukulam	Pre	7.3	7.36	04	32	764	15.28	546	164	18	178	52	0.013	0.079	<0.010	0.016	0.023	0.184
		20.09.2023		During	6.7	7.53	08	56	724	14.08	516	135	14	180	70	0.018	0.133	0.014	0.033	0.054	0.290
		26.09.2023		Post	5.9	7.51	9.6	64	745	14.88	538	105	16	148	56	0.026	0.163	0.019	0.044	0.069	0.393




Analysis results (Physio-Chemical and Bacteriological Parameter) of different water bodies over Tamil Nadu State monitored during pre- and post-idol immersion activity during Ganesh Chaturthi - 2023

District : Trichy

Sl. No.	Sampling Location in Trichy Jurisdiction	Date of sampling	Type of water body	Pre/ During/ Post	DO (mg/L)	pH	BOD (mg/L)	COD	Conductivity	Turbidity	TDS	Chloride	TSS	Total Hardness	Total Alkalinity	Heavy Metals in mg/l					
																Cadmium	Copper	Chromium	Manganese	Lead	Zinc
41	Pudukkottai	16.09.2023	Ponnamaravathi-Pon puthupatti Sengai Oorani	Pre	7.1	7.46	03	24	628	10.26	466	106	16	170	44	0.010	0.061	<0.010	0.015	<0.015	0.113
		20.09.2023		During	6.9	7.60	07	40	658	12.36	480	76	16	138	78	0.018	0.091	0.019	0.028	0.023	0.216
		26.09.2023		Post	6.0	7.52	6.8	40	701	6.77	526	100	08	122	52	0.336	0.095	0.019	0.045	0.037	0.076
42	Pudukkottai	16.09.2023	Karambakkudi-Agnyiaru(Near Thirumanajeri Road,Agnyiar river bridge)	Pre	7.0	8.21	14	88	1500	10.41	1098	288	52	340	152	0.051	0.224	<0.010	0.064	0.044	0.416
		22.09.2023		During	6.6	8.51	18	96	4632	24.8	3416	450	26	860	156	0.081	0.297	0.023	0.079	0.061	0.597
		26.09.2023		Post	5.8	8.32	18	112	1515	22.08	1098	290	24	230	128	0.090	0.174	0.023	0.135	0.081	0.698
43	Pudukkottai	16.09.2023	Kammangadu-Mootha Oorani	Pre	7.0	7.63	08	48	1400	9.27	1036	242	46	368	98	0.021	0.163	<0.010	0.042	<0.015	0.097
		21.09.2023		During	6.8	7.82	16	96	1561	15.18	1138	224	24	360	98	0.037	0.316	0.023	0.049	0.041	0.236
				Post	6.0	7.81	08	56	1647	16.23	1288	360	20	262	70	0.049	0.099	0.023	0.064	0.034	0.246
44	Ariyalur	12.09.2023	Annaikarai Kollidam River	Pre	7.8	7.53	2.6	32	575	5.16	426	72	18	146	58	0.0008	0.063	<0.010	0.019	0.043	0.062
		20.09.2023		During	7.6	7.86	2.2	16	630	10.16	464	80	14	142	98	0.014	0.106	0.014	0.026	0.019	0.139
		26.09.2023		Post	7.0	7.60	4.6	32	661	12.16	468	115	14	160	82	0.022	0.138	0.019	0.094	0.033	0.169
45	Ariyalur	13.09.2023	Thirumanur Kollidam River	Pre	08	7.51	2.2	24	586	6.10	432	72	20	136	78	<0.0008	0.060	<0.010	<0.018	0.044	0.058
		20.09.2023		During	7.2	7.73	08	40	540	11.29	394	76	08	132	86	0.013	0.084	0.014	0.026	0.051	0.078
		26.09.2023		Post	6.9	7.82	9.2	48	587	12.98	428	90	10	164	98	0.017	0.109	0.019	0.100	0.630	0.143

INFERENCE: There is no marked difference in the sampled loaction over the Trichy sight, with refence to Preimmersion and Post Immersion ,that indicates pollution due to immersion of idol. However negligible changes in Heavy metal contents is visible.

  
30/10/23  
ES  
priyanka.k

  
DCSO (A&W)

  
DEPUTY DIRECTOR (L)  
Tamilnadu Pollution Control  
76, Mount Salai, Guindy  
Chennai-600 032.



**Analysis results (Physio-Chemical and Bacteriological Parameter) of different water bodies over Tamil Nadu State monitored during pre- and post-idol immersion activity during Ganesh Chaturthi - 2023**

District :  
Chengalpattu

S.No	Sampling Location	Date of sampling	Type of water body	Pre/ Post immersion sampling	General Parameters											Heavy Metals in mg/L								
					Color(Hazen Units)	DO (mg/L)	pH	BOD (mg/L)	COD (mg/L)	Conductivity (µmho/cm)	Turbidity (mg/L)	Total Dissolved Solids (mg/L)	Chlorides (mg/L)	Total Suspended Solids (mg/L)	Total Hardness (mg/L)	Total Alkalinity (mg/L)	Cadmium	Copper	Chromium Total	Manganese	Lead	Zinc		
1	Palkali Nagar	14.09.2023	Sea water	Pre	Colorless	5.9	7.9	3	*	53800	<0.1	28847	13021	6	6000	80	<0.008	<0.0015	<0.003	<0.01	<0.015	<0.014		
		24.09.2023		During	Colorless	6.4	7.82	4	*	52100	<1.0	34802	20428	6	6250	90	<0.1	<0.2	<0.05	<0.01	<0.5	<0.1		
		29.09.2023		Post	Colorless	7.9	7.55	2	*	52500	<1.0	52500	12715	12	6200	84	<0.1	<0.2	<0.05	<0.01	<0.5	<0.1		
2	Neelankarai	14.09.2023	Sea water	Pre	Colorless	6.2	7.8	3	*	53700	<0.1	26076	14196	6	6500	68	<0.008	<0.0015	<0.003	<0.01	<0.015	<0.014		
		-		During	Colorless	No Immersion																		
		-		Post	Colorless	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	Kovalam Beach	14.09.2023	Sea water	Pre	Colorless	5.9	8	3	*	52400	<0.1	28683	13396	6	6600	76	<0.008	<0.0015	<0.003	<0.01	<0.015	<0.014		
		-		During	Colorless	No Immersion																		
		-		Post	Colorless	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	Mamallapuram Beach	14.09.2023	Sea water	Pre	Colorless	7.2	8.2	2	*	54600	<0.1	27270	14046	4	6400	88	<0.008	<0.0015	<0.003	<0.01	<0.015	<0.014		
		24.09.2023		During	Colorless	6.8	7.76	4	*	52300	<1.0	35760	20636	6	7000	100	<0.1	<0.2	<0.05	<0.01	<0.5	<0.1		
		29.09.2023		Post	Colorless	7.1	7.92	3	*	51200	<1.0	33382	12298	10	6700	92	<0.1	<0.2	<0.05	<0.01	<0.5	<0.1		



Analysis results (Physio-Chemical and Bacteriological Parameter) of different water bodies over Tamil Nadu State monitored during pre- and post-idol immersion activity during Ganesh Chaturthi - 2023																					District : Chengalpattu			
S.No	Sampling Location	Date of sampling	Type of water body	Pre/ Post immersion sampling	General Parameters											Heavy Metals in mg/L								
					Color(Hazen Units)	DO (mg/L)	pH	BOD (mg/L)	COD (mg/L)	Conductivity (µmho/cm)	Turbidity (mg/L)	Total Dissolved Solids (mg/L)	Chlorides (mg/L)	Total Suspended Solids (mg/L)	Total Hardness (mg/L)	Total Alkalinity (mg/L)	Cadmium	Copper	Chromium Total	Manganese	Lead	Zinc		
5	kadalurkuppam beach	14.09.2023	Sea water	Pre	Colorless	7.1	8.2	2	*	52100	<0.1	29418	12846	4	6200	76	<0.008	<0.0015	<0.003	<0.01	<0.015	<0.014		
		-		During	Colorless	No Immersion																		
		-		Post	Colorless	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	Sathurangapattinam beach	14.09.2023	Sea water	Pre	Colorless	7.5	8.2	2	*	51800	<0.1	28711	14745	5	6100	76	<0.008	<0.0015	<0.003	<0.01	<0.015	<0.014		
		-		During	Colorless	No Immersion																		
		-		Post	Colorless	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	Vadapattinam Beach	14.09.2023	Sea water	Pre	Colorless	7	8.2	2	*	54000	<0.1	25938	13746	4	6200	76	<0.008	<0.0015	<0.003	<0.01	<0.015	<0.014		
		24.09.2023		During	Colorless	6.2	7.91	5	*	52500	<1.0	35314	20948	8	6200	80	<0.1	<0.2	<0.05	<0.01	<0.5	<0.1		
		29.09.2023		Post	Colorless	6.9	7.79	2	*	45600	<1.0	29822	11047	10	6400	78	<0.1	<0.2	<0.05	<0.01	<0.5	<0.1		
8	Paramankenni Beach	14.09.2023	Sea water	Pre	Colorless	6.9	8.1	2	*	54000	<0.1	30280	13996	6	6200	68	<0.008	<0.0015	<0.003	<0.01	<0.015	<0.014		
		-		During	Colorless	No Immersion																		
		-		Post	Colorless	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	Thazhuthalikuppam beach	14.09.2023	Sea water	Pre	Colorless	6.8	8.2	2	*	52000	<0.1	24800	12946	4	6300	72	<0.008	<0.0015	<0.003	<0.01	<0.015	<0.014		
		-		During	Colorless	No Immersion																		
		-		Post	Colorless	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	Alamparai kuppam Beach	14.09.2023	Sea water	Pre	Colorless	7.5	8.24	2	*	53000	<0.1	26990	11996	4	6200	80	<0.008	<0.0015	<0.003	<0.01	<0.015	<0.014		
		-		During	Colorless	No Immersion																		
		-		Post	Colorless	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

INFERENCE: There is no marked difference in the sampled loaction over the Chengalpattu sight, with refence to Preimmersion and Post Immersion, that indicates pollution due to immersion of idol.

*[Signature]*  
30/10/23  
ES

*[Signature]*  
30/10/23  
DCSO (A&W)

*[Signature]*  
DEPUTY DIRECTOR (LAB)  
Tamilnadu Pollution Control Board  
Chennai-600 032.  
DD (Labs) i/c



Analysis results (Physio-Chemical and Bacteriological Parameter) of different water bodies over Tamil Nadu State monitored during pre- and post-idol immersion activity during Ganesh Chaturthi - 2023

District : Erode

S.No	Sampling Location	Date of sampling	Type of water body	Pre/ Post immersion sampling	General Parameters											Heavy Metals ,mg/L										Micro Biological	
					DO (mg/L)	pH	BOD (mg/L)	COD (mg/L)	Conductivity (µmho/cm)	Turbidity (mg/L)	Total Dissolved Solids (mg/L)	Chlorides (mg/L)	Total Suspended Solids	Total Hardness (mg/L)	Total Alkalinity (mg/L)	Cadmium	Arsenic	Copper	Chromium Total	Manganese	Lead	Zinc	Iron	Nickel	Fecal Coliform MPN/100ml	Total Coliform MPN/100ml	
1	Varasathi Vinayagar temple at Sathyamangala	15.09.2023	River	Pre	6.9	7.88	<2	8	172	1.44	168	37	4	64	10	<0.05	<0.01	<0.1	<0.05	<0.1	<0.3	<0.03	0.123	<0.1	14	22	
		22.09.2023		During	6.6	7.26	<2	8	292	5.83	254	42	4	76	20	<0.05	<0.01	<0.1	<0.05	<0.1	<0.3	<0.03	0.1810	<0.1	20	47	
		29.09.2023		Post	7	6.42	<2	8	191	1.54	128	25	4	68	10	<0.05	<0.01	<0.1	<0.05	<0.1	<0.3	<0.03	0.169	<0.1	17	24	
2	Thadapalli canal	15.09.2023	River	Pre	7	8.14	<2	8	439	2.12	312	42	4	164	10	<0.05	<0.01	<0.1	<0.05	<0.1	<0.3	<0.03	0.186	<0.1	12	21	
		22.09.2023		During	6.8	7.92	<2	8	535	4.4	464	66	6	188	10	<0.05	<0.01	<0.1	<0.05	<0.1	<0.3	<0.03	0.287	<0.1	20	39	
		29.09.2023		Post	7	8.14	<2	8	365	4.18	268	50	4	136	10	<0.05	<0.01	<0.1	<0.05	<0.1	<0.3	<0.03	0.099	<0.1	9.2	24	
3	Seyyampalayam	15.09.2023	River	Pre	7	7.97	<2	8	167	1.06	112	33	6	72	10	<0.05	<0.01	<0.1	<0.05	<0.1	<0.3	<0.03	0.188	<0.1	6.8	14	
		22.09.2023		During	6.7	7.41	<2	16	182	3.45	168	48	6	120	10	<0.05	<0.01	<0.1	<0.05	<0.1	<0.3	<0.03	0.228	<0.1	17	39	
		29.09.2023		Post	6.8	7.6	3	16	212	2.96	114	25	2	80	10	<0.05	<0.01	<0.1	<0.05	<0.1	<0.3	<0.03	0.093	<0.1	11	21	
4	Nanjai Puliypatti - River Bhavani	15.09.2023	River	Pre	7.2	8.19	<2	8	196	1.48	88	23	4	80	10	<0.05	<0.01	<0.1	<0.05	<0.1	<0.3	<0.03	0.103	<0.1	9.1	4	
		22.09.2023		During	6.8	7.99	3	16	223	5.9	164	48	4	100	10	<0.05	<0.01	<0.1	<0.05	<0.1	<0.3	<0.03	0.446	<0.1	17	32	
		29.09.2023		Post	7.1	7.67	2	16	236	2.38	102	30	2	100	10	<0.05	<0.01	<0.1	<0.05	<0.1	<0.3	<0.03	0.117	<0.1	12	24	
5	Athani - River Bhavani	15.09.2023	River	Pre	7.1	8.34	<2	8	254	1.55	108	28	6	100	10	<0.05	<0.01	<0.1	<0.05	<0.1	<0.3	<0.03	0.215	<0.1	12	24	
		22.09.2023		During	6.9	7.95	<2	16	288	6.51	180	36	8	120	10	<0.05	<0.01	<0.1	<0.05	<0.1	<0.3	<0.03	0.458	<0.1	20	47	
		29.09.2023		Post	7	7.96	<2	8	254	2.6	98	30	4	100	10	<0.05	<0.01	<0.1	<0.05	<0.1	<0.3	<0.03	0.263	<0.1	17	32	
6	Padaguthurai - River Bhavani	15.09.2023	River	Pre	7	8.46	<2	8	273	1.48	112	37	6	96	10	<0.05	<0.01	<0.1	<0.05	<0.1	<0.3	<0.03	0.101	<0.1	7.8	14	
		22.09.2023		During	6.6	7.98	<2	16	299	6.99	162	42	10	148	10	<0.05	<0.01	<0.1	<0.05	<0.1	<0.3	<0.03	0.158	<0.1	11	26	
		29.09.2023		Post	6.9	8.33	<2	8	272	2.32	128	35	6	108	10	<0.05	<0.01	<0.1	<0.05	<0.1	<0.3	<0.03	0.111	<0.1	9.2	17	



Analysis results (Physio-Chemical and Bacteriological Parameter) of different water bodies over Tamil Nadu State monitored during pre- and post-idol immersion activity during Ganesh Chaturthi - 2023

District : Erode

S.No	Sampling Location	Date of sampling	Type of water body	Pre/Post immersion sampling	General Parameters											Heavy Metals ,mg/L								Micro Biological		
					DO (mg/L)	pH	BOD (mg/L)	COD (mg/L)	Conductivity (µmho/cm)	Turbidity (mg/L)	Total Dissolved Solids (mg/L)	Chlorides (mg/L)	Total Suspended Solids	Total Hardness (mg/L)	Total Alkalinity (mg/L)	Cadmium	Arsenic	Copper	Chromium Total	Manganese	Lead	Zinc	Iron	Nickel	Fecal Coliform MPN/100ml	Total Coliform MPN/100ml
7	Perunthalayur - River Bhavani	15.09.2023	River	Pre	7.2	8.43	<2	8	232	1.65	60	37	8	100	10	<0.05	<0.01	<0.1	<0.05	<0.1	<0.3	<0.03	0.268	<0.1	6.8	12
		22.09.2023		During	7	7.95	<2	16	257	5.8	108	54	8	136	10	<0.05	<0.01	<0.1	<0.05	<0.1	<0.3	<0.03	0.299	<0.1	17	24
		29.09.2023		Post	7	8.14	2	8	267	2.63	58	20	4	96	10	<0.05	<0.01	<0.1	<0.05	<0.1	<0.3	<0.03	0.245	<0.1	11	17
8	Kooduthurai	15.09.2023	River	Pre	7	8.46	<2	8	292	0.82	120	28	2	116	10	<0.05	<0.01	<0.1	<0.05	<0.1	<0.3	<0.03	0.377	<0.1	4.5	24
		22.09.2023		During	6.7	8.31	<2	24	319	2.28	214	45	4	192	10	<0.05	<0.01	<0.1	<0.05	<0.1	<0.3	<0.03	0.38	<0.1	12	34
		29.09.2023		Post	6.8	8.15	3	16	344	1.34	204	45	6	124	10	<0.05	<0.01	<0.1	<0.05	<0.1	<0.3	<0.03	0.211	<0.1	6.8	12
9	Pallipalayam	15.09.2023	River	Pre	6.8	7.79	<2	8	397	0.71	126	56	2	124	10	<0.05	<0.01	<0.1	<0.05	<0.1	<0.3	<0.03	0.239	<0.1	9.3	21
		22.09.2023		During	6.3	7.57	<2	8	419	6.82	308	81	8	140	10	<0.05	<0.01	<0.1	<0.05	<0.1	<0.3	<0.03	0.217	<0.1	13	33
		29.09.2023		Post	6.5	7.72	3	8	431	0.8	176	40	2	100	10	<0.05	<0.01	<0.1	<0.05	<0.1	<0.3	<0.03	0.095	<0.1	6.8	21
10	Mannathampalayam Modakurichi	15.09.2023	River	Pre	6.5	8.13	<2	8	327	0.9	162	37	4	120	10	<0.05	<0.01	<0.1	<0.05	<0.1	<0.3	<0.03	0.062	<0.1	14	33
		22.09.2023		During	6	7.78		24	365	2.71	286	69	4	164	10	<0.05	<0.01	<0.1	<0.05	<0.1	<0.3	<0.03	0.096	<0.1	17	39
		29.09.2023		Post	6.2	7.76	2	16	390	0.89	160	40	4	124	10	<0.05	<0.01	<0.1	<0.05	<0.1	<0.3	<0.03	0.057	<0.1	14	21
11	Magudesarar temple - Kodumudi	15.09.2023	River	Pre	6.7	8.24	<2	8	336	1.16	150	42	2	120	10	<0.05	<0.01	<0.1	<0.05	<0.1	<0.3	<0.03	0.882	<0.1	12	24
		22.09.2023		During	6.1	8.07	<2	8	389	2.74	280	75	4	168	10	<0.05	<0.01	<0.1	<0.05	<0.1	<0.3	<0.03	0.882	<0.1	17	32
		29.09.2023		Post	6.5	7.86	<2	16	396	2.17	186	35	4	128	10	<0.05	<0.01	<0.1	<0.05	<0.1	<0.3	<0.03	0.664	<0.1	11	26
12	Thalamalai Road - Thalavadi	15.09.2023	River	Pre	6.9	8.06	<2	8	167	0.94	82	23	2	80	10	<0.05	<0.01	<0.1	<0.05	<0.1	<0.3	<0.03	0.056	<0.1	6.8	12
		22.09.2023		During	6.2	7.40	<2	8	188	1.79	154	45	4	88	10	<0.05	<0.01	<0.1	<0.05	<0.1	<0.3	<0.03	0.07	<0.1	12	20
		29.09.2023		Post	6.8	7.91	<2	8	173	1.67	106	25	2	64	10	<0.05	<0.01	<0.1	<0.05	<0.1	<0.3	<0.03	0.065	<0.1	9.3	17

INFERENCE: There is no marked difference in the sampled loaction over the Tiruvallur sight, with refence to Preimmersion and Post Immersion, that indicates pollution due to immersion of idol.

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30/10/23  
ES  
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DD (Labs) i/c

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**Analysis results (Physio-Chemical and Bacteriological Parameter) of different water bodies over  
Tamil Nadu State Monitored during Pre and Post Idol Immersion activity during Ganesh Chaturthi - 2023**

District : Namakkal

SL. No	Sampling Location in Tirunelveli	Date of sampling	Type of water body	Immersion Sampling	DO (mg/L)	pH	BOD (mg/L)	COD (mg/L)	Conductivity (µmho/cm)	Turbidity (mg/L)	Total Dissolved Solids (mg/L)	Chlorides (mg/L)	Total Suspended Solids (mg/L)	Total Hardness (mg/L)	Total Alkalinity (mg/L)	Cadmium	Copper	Chromium Total	Manganese	Lead	Zinc	Fecal Coliform MPN/100ml	Total Coliform MPN/100ml	
					General Parameters													Heavy Metals , mg/L					Microbiology, MPN /100ml	
1	Cauvery River- Pallipalayam Bridge	14.09.23	River	Pre	6.1	7.88	<2	16	370	0.64	216	36	4	140	104	<0.05	<0.1	<0.05	<0.1	<0.3	<0.03	9.3	17	
		20.09.23		During	4.5	7.61	2.7	32	420	0.72	264	42	8	160	124	<0.05	<0.1	<0.05	<0.1	<0.3	<0.03	14	33	
		25.09.23		Post	5.7	7.91	<2	24	407	0.84	248	42	8	160	112	<0.05	<0.1	<0.05	<0.1	<0.3	<0.03	11	32	
2	Erayamanagalam Vinayagar Temple near the river	14.09.23	River	Pre	5.8	7.4	<2	16	356	0.34	256	40	4	170	128	<0.05	<0.1	<0.05	<0.1	<0.3	<0.03	11	32	
		20.09.23		During	5	7.37	2.4	24	400	0.67	288	46	8	170	132	<0.05	<0.1	<0.05	<0.1	<0.3	<0.03	14	27	
		26.09.23		Post	5.6	7.72	<2	24	393	0.79	272	44	8	150	128	<0.05	<0.1	<0.05	<0.1	<0.3	<0.03	9.3	32	
3	Velur near kasi viswanathar Temple	14.09.23	River	Pre	6.2	7.45	<2	16	389	0.72	268	40	4	190	132	<0.05	<0.1	<0.05	<0.1	<0.3	<0.03	9.3	32	
		22.09.23		During	5.6	8.29	<2	24	510	0.91	372	40	8	170	124	<0.05	<0.1	<0.05	<0.1	<0.3	<0.03	17	47	
		25.09.23		Post	6	8.33	<2	24	456	0.9	316	40	8	160	132	<0.05	<0.1	<0.05	<0.1	<0.3	<0.03	11	32	
4	Mohanur - Near Sivan Temple	15.09.23	River	Pre	6.4	7.5	<2	16	362	2.46	276	56	4	150	140	<0.05	<0.1	<0.05	<0.1	<0.3	<0.03	17	34	
		20.09.23		During	5.9	8.44	<2	32	535	0.49	352	72	12	200	156	<0.05	<0.1	<0.05	<0.1	<0.3	<0.03	17	47	
		26.09.23		Post	6.2	7.88	<2	24	1118	0.94	636	180	8	280	220	<0.05	<0.1	<0.05	<0.1	<0.3	<0.03	11	14	

INFERENCE: There is no marked difference in the sampled loaction over the Namakkal sight, with refence to Preimmersion and Post Immersion that ,indicates pollution due to immersion of idol.

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**Analysis results (Physio-Chemical and Bacteriological Parameter) of different water bodies over Tamil Nadu State monitored during pre- and post-idol immersion activity during Ganesh Chaturthi - 2023**

District :  
THIRUVALLUR

S.No	Sampling Location	Date of sampling	Type of water body	Pre/ Post immersion sampling	General Parameters										Heavy Metals in mg/L							
					DO (mg/L)	pH	BOD (mg/L)	COD (mg/L)	Conductivity (µmho/cm)	Turbidity (mg/L)	Total Dissolved Solids (mg/L)	Chlorides (mg/L)	Total Suspended Solids (mg/L)	Total Hardness (mg/L)	Total Alkalinity (mg/L)	Cadmium	Copper	Chromium Total	Manganese	Lead	Zinc	
1	MGR NAGAR TANK (PUTLUR LAKE)	15.09.2023	lake	Pre	5.6	7.5	4	40	1194	1.6	718	190	24	270	330	0.198	0.349	<0.05	0.212	<0.07	0.512	
				During																		
		27.09.2023		Post	<b>5.2</b>	<b>7.38</b>	<b>5</b>	<b>48</b>	<b>1203</b>	<b>2.1</b>	<b>764</b>	<b>205</b>	<b>32</b>	<b>360</b>	<b>320</b>	<b>0.291</b>	<b>0.542</b>	<b>&lt;0.05</b>	<b>0.342</b>	<b>0.396</b>	<b>0.728</b>	
2	COOVAM ERI	15.09.2023	Lake	Pre	5.5	7.57	5	48	742	1.2	436	132	14	128	190	0.278	0.571	<0.05	0.162	<0.07	0.271	
				During																		
		27.09.2023		Post	<b>4.9</b>	<b>8.13</b>	<b>6</b>	<b>56</b>	<b>854</b>	<b>1.8</b>	<b>502</b>	<b>178</b>	<b>16</b>	<b>156</b>	<b>150</b>	<b>0.462</b>	<b>0.682</b>	<b>&lt;0.05</b>	<b>0.312</b>	<b>0.792</b>	<b>0.381</b>	
3	THIRMAZHIS AI TANK	15.09.2023	Tank	Pre	5.6	7.75	3	32	1178	1.4	692	180	22	280	300	0.267	0.659	<0.05	0.192	<0.07	0.529	
				During																		
		27.09.2023		Post	<b>5.4</b>	<b>8.39</b>	<b>5</b>	<b>48</b>	<b>1561</b>	<b>1.6</b>	<b>908</b>	<b>270</b>	<b>26</b>	<b>286</b>	<b>360</b>	<b>0.398</b>	<b>0.716</b>	<b>&lt;0.05</b>	<b>0.262</b>	<b>0.482</b>	<b>0.632</b>	
4	UTHUKOTTAI TANK	15.09.2023	Tank	Pre	6.1	7.86	5	48	755	<1	466	116	14	104	230	0.228	0.592	<0.05	0.142	<0.07	0.345	
				During																		
		27.09.2023		Post	<b>5.9</b>	<b>7.10</b>	<b>6</b>	<b>56</b>	<b>804</b>	<b>&lt;1</b>	<b>512</b>	<b>188</b>	<b>16</b>	<b>196</b>	<b>170</b>	<b>0.398</b>	<b>0.718</b>	<b>&lt;0.05</b>	<b>0.248</b>	<b>0.572</b>	<b>0.462</b>	
5	CHITTERI	15.09.2023	lake	Pre	6.8	7.45	4	40	743	1.2	462	114	26	100	230	0.462	0.791	<0.05	0.192	<0.07	0.672	
				During																		
		27.09.2023		Post	<b>6.4</b>	<b>7.61</b>	<b>5</b>	<b>48</b>	<b>825</b>	<b>1.6</b>	<b>532</b>	<b>178</b>	<b>28</b>	<b>152</b>	<b>170</b>	<b>0.592</b>	<b>0.892</b>	<b>&lt;0.05</b>	<b>0.376</b>	<b>0.621</b>	<b>0.782</b>	
6	KUSASTHALI RIVER	15.09.2023	River	Pre	5.5	7.87	5	48	941	<1	562	120	16	125	220	<0.013	0.692	<0.05	0.162	<0.07	0.579	
				During																		
		27.09.2023		Post	<b>5.1</b>	<b>7.77</b>	<b>6</b>	<b>56</b>	<b>1086</b>	<b>1.2</b>	<b>604</b>	<b>160</b>	<b>18</b>	<b>136</b>	<b>130</b>	<b>0.212</b>	<b>0.812</b>	<b>&lt;0.05</b>	<b>0.292</b>	<b>0.368</b>	<b>0.672</b>	



Analysis results (Physio-Chemical and Bacteriological Parameter) of different water bodies over Tamil Nadu State monitored during pre- and post-idol immersion activity during Ganesh Chaturthi - 2023

District :  
THIRUVALLUR

S.No	Sampling Location	Date of sampling	Type of water body	Pre/ Post immersion sampling	General Parameters										Heavy Metals in mg/L							
					DO (mg/L)	pH	BOD (mg/L)	COD (mg/L)	Conductivity (µmho/cm)	Turbidity (mg/L)	Total Dissolved Solids (mg/L)	Chlorides (mg/L)	Total Suspended Solids (mg/L)	Total Hardness (mg/L)	Total Alkalinity (mg/L)	Cadmium	Copper	Chromium Total	Manganese	Lead	Zinc	
7	GANDHI ROAD TANK	15.09.2023	Tank	Pre	6.2	7.77	3	32	692	<1	388	162	12	115	260	<0.013	<0.033	<0.05	<0.02	<0.07	0.626	
				During																		
		27.09.2023		Post	5.5	7.51	5	40	826	<1	502	142	16	156	150	0.428	0.728	<0.05	0.337	0.362	0.841	
8	VANNANKULAM	15.09.2023	Tank	Pre	6.2	7.32	3	24	127	<1	74	18	16	40	90	<0.013	<0.033	<0.05	<0.02	<0.07	<0.01	
				During																		
		27.09.2023		Post	6.0	7.44	3	32	144	<1	86	40	18	46	80	<0.013	0.163	<0.05	<0.02	<0.07	0.912	
9	KARIMBEDI KULAM	15.09.2023	Tank	Pre	5.6	8.76	7	64	1038	1.4	702	145	26	180	300	<0.013	0.612	<0.05	<0.02	<0.07	0.596	
				During																		
		27.09.2023		Post	4.2	8.64	9	88	1241	2.1	812	165	30	220	260	0.528	0.782	<0.05	0.342	0.341	0.986	
10	PANDARAVE DU KULAM	15.09.2023	Tank	Pre	6.5	8.33	5	40	1334	<1	840	245	14	240	310	<0.013	0.639	<0.05	<0.02	<0.07	0.836	
				During																		
		27.09.2023		Post	6.1	8.59	6	48	1603	<1	1012	365	16	280	250	0.372	0.824	<0.05	0.165	0.696	0.959	
11	PARASAKTHI NAGAR KULAM	15.09.2023	Tank	Pre	6.8	7.99	3	24	597	<1	382	82	12	78	160	<0.013	<0.033	<0.05	<0.02	<0.07	<0.01	
				During	Sample not taken																	
		27.09.2023		Post	6.2	8.61	4	40	697	<1	404	126	16	130	180	0.528	0.652	<0.05	0.104	0.201	0.842	
12	KANAGAMMA CHATHIRAM KULAM	15.09.2023	Tank	Pre	5.6	7.18	5	48	825	2.3	734	138	36	160	250	<0.013	<0.033	<0.05	<0.02	<0.07	0.096	
				During	Sample not taken																	
		27.09.2023		Post	5.1	7.72	6	56	880	2.6	762	164	40	168	160	0.324	0.748	<0.05	0.281	0.492	0.878	
13	KAKKALUR LAKE	15.09.2023	Lake	Pre	5.0	6.72	18	176	1175	4.1	808	225	54	230	300	<0.013	0.095	<0.05	<0.02	<0.07	0.371	
				During	Sample not taken																	
		27.09.2023		Post	4.2	7.55	38	272	1955	6.2	1114	290	62	240	220	0.351	0.628	<0.05	0.272	0.098	0.568	

INFERENCE: There is no marked difference in the sampled location over the Tiruvallur sight, with reference to Preimmersion and Post Immersion, that indicates pollution due to immersion of idol.

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priyanka.k

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DCSO (A.W)

DD (Labs) i/c

DEPUTY DIRECTOR (LABS)  
Tamilnadu Pollution Control Board  
76, Mount Salai, Guindy,  
Chennai-600 032.

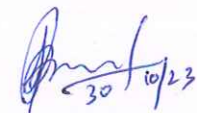


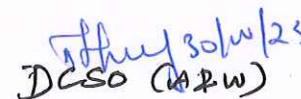
Analysis results (Physio-Chemical and Bacteriological Parameter) of different water bodies over Tamil Nadu State monitored during pre- and post-idol immersion activity during Ganesh Chaturthi - 2023


District : GUMMUDIPOONDI

S.No	Sampling Location	Date of sampling	Type of water body	Pre/ Post immersion sampling	Physio-Chemical and Bacteriological Parameters											Heavy Metals ,mg/L					
					DO (mg/L)	pH	BOD (mg/L)	COD (mg/L)	Conductivity (µmho/cm)	Turbidity (mg/L)	Total Dissolved Solids (mg/L)	Chlorides (mg/L)	Total Suspended Solids (mg/L)	Total Hardness (mg/L)	Total Alkalinity (mg/L)	Cadmium	Copper	Chromium Total	Manganese	Lead	Zinc
1	EZHUKAN PALAM	19.09.2023	River	Pre	6.1	7.48	5	48	533	1.2	362	90	26	72	130	<0.013	0.078	<0.05	<0.02	<0.07	0.068
		24.09.2023		During	6.0	8.40	6	56	657	1.2	408	100	24	160	140	<0.013	0.092	<0.05	0.348	<0.07	0.072
		25.09.2023		Post	<b>5.5</b>	<b>8.23</b>	<b>8</b>	<b>72</b>	<b>687</b>	<b>2.8</b>	<b>432</b>	<b>104</b>	<b>30</b>	<b>180</b>	<b>170</b>	<b>&lt;0.013</b>	<b>0.124</b>	<b>&lt;0.05</b>	<b>0.512</b>	<b>0.262</b>	<b>0.248</b>
2	KOSASTHA LAIYAR RIVER-UNTREATED	19.09.2023	River	Pre	5.8	7.30	4	40	34500	1.1	21202	11062	16	4400	150	0.552	0.162	<0.05	0.098	<0.07	0.312
		24.09.2023		During	5.5	7.83	5	48	33800	<1	20962	10964	14	4600	140	0.558	0.168	<0.05	0.168	0.469	0.326
		25.09.2023		Post	<b>5.1</b>	<b>7.70</b>	<b>6</b>	<b>56</b>	<b>36100</b>	<b>1.6</b>	<b>22626</b>	<b>12018</b>	<b>18</b>	<b>4800</b>	<b>150</b>	<b>0.667</b>	<b>0.509</b>	<b>&lt;0.05</b>	<b>0.214</b>	<b>0.596</b>	<b>0.827</b>
3	KATTUPALI SEA SHORE-UNTREATED	19.09.2023	Sea water	Pre	6.6	7.95	3	32	51300	<1	32164	17997	12	8000	150	0.056	0.178	<0.05	<0.02	<0.07	0.592
		24.09.2023		During	6.4	8.16	3	32	51600	<1	32618	17993	16	6900	140	0.689	0.182	<0.05	0.348	0.362	0.768
		25.09.2023		Post	<b>6.0</b>	<b>8.31</b>	<b>5</b>	<b>48</b>	<b>51600</b>	<b>1.1</b>	<b>32904</b>	<b>18112</b>	<b>18</b>	<b>7300</b>	<b>150</b>	<b>0.929</b>	<b>0.459</b>	<b>&lt;0.05</b>	<b>0.526</b>	<b>0.827</b>	<b>0.828</b>
4	PILICAT SEA SHORE-UNTREATED	19.09.2023	Sea water	Pre	5.8	8.12	3	32	51700	<1	32128	17632	12	7000	130	0.116	0.168	<0.05	0.102	<0.07	0.362
		24.09.2023		During	5.5	8.19	5	48	51900	1.1	32614	17808	16	6800	140	0.227	0.227	<0.05	0.342	0.121	0.489
		25.09.2023		Post	<b>4.9</b>	<b>8.78</b>	<b>6</b>	<b>56</b>	<b>51700</b>	<b>1.4</b>	<b>31918</b>	<b>18016</b>	<b>20</b>	<b>9100</b>	<b>130</b>	<b>0.401</b>	<b>0.738</b>	<b>&lt;0.05</b>	<b>0.398</b>	<b>0.292</b>	<b>0.539</b>
5	NAPALAYAM BRIDGE (B-CANAL)-UNTREATED	19.09.2023	River	Pre	6.2	8.86	4	40	3450	1.1	2144	950	16	510	220	<0.013	0.198	<0.05	<0.02	<0.07	0.098
		24.09.2023		During	6.0	8.37	5	48	3570	1.4	2264	1012	18	540	220	<0.013	0.207	<0.05	0.268	<0.07	0.112
		25.09.2023		Post	<b>5.5</b>	<b>8.36</b>	<b>6</b>	<b>56</b>	<b>3650</b>	<b>1.8</b>	<b>2312</b>	<b>1418</b>	<b>20</b>	<b>700</b>	<b>200</b>	<b>0.327</b>	<b>0.376</b>	<b>&lt;0.05</b>	<b>0.312</b>	<b>0.559</b>	<b>0.372</b>

INFERENCE: There is no marked difference in the sampled location over the Gummudipoondi sighth, with reference to Preimmersion and Post Immersion, that indicates pollution due to immersion of idol.

  
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ES  
Priyanka.K

  
30/10/23  
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Analysis results (Physio-Chemical and Bacteriological Parameter) of different water bodies over Tamil Nadu State monitored during pre- and post-idol immersion activity during Ganesh Chaturthi - 2023

District : VILLUPURAM

S.No	Sampling Location	Date of sampling	Type of water body	Pre/ Post immersion sampling	General Parameters										Heavy Metals , mg/L						
					DO (mg/L)	pH	BOD (mg/L)	COD (mg/L)	Conductivity (µmhos/cm)	Turbidity (NTU)	Total Dissolved Solids (mg/L)	Chlorides (mg/L)	Total Suspended Solids (mg/L)	Total Hardness (mg/L)	Total Alkalinity (mg/L)	Cadmium (mg/L)	Copper (mg/L)	Chromium Total (mg/L)	Manganese (mg/L)	Lead (mg/L)	Zinc (mg/L)
1	Komaki Dam	16.09.2023	Inland Surface water	Pre	5.3	8.62	3.2	32	466	10	288	25	14	155	160	<0.0008	0.076	<0.01	<0.1	0.021	0.038
		20.09.2023		During	5.6	8.3	3.1	40	410	25	246	103	16	160	166	<0.0008	0.078	<0.01	<0.1	0.029	0.056
		22.09.2023		Post	<b>5.6</b>	<b>8.26</b>	<b>3</b>	<b>40</b>	<b>439</b>	<b>14</b>	<b>260</b>	<b>110</b>	<b>18</b>	<b>175</b>	<b>162</b>	<b>&lt;0.0008</b>	<b>0.074</b>	<b>&lt;0.01</b>	<b>&lt;0.1</b>	<b>0.024</b>	<b>0.043</b>
2	Sankarapuram	16.09.2023	Inland Surface water	Pre	5.7	8.4	3.3	32	519	5.9	312	145	12	220	162	<0.0008	0.098	<0.01	<0.1	0.029	0.067
		20.09.2023		During	5.6	7.49	3.4	48	398	14.7	232	100	16	230	168	<0.0008	0.102	<0.01	<0.1	0.041	0.081
		28.09.2023		Post	<b>5.7</b>	<b>8.2</b>	<b>3.6</b>	<b>40</b>	<b>542</b>	<b>8</b>	<b>326</b>	<b>136</b>	<b>22</b>	<b>240</b>	<b>164</b>	<b>&lt;0.0008</b>	<b>0.099</b>	<b>&lt;0.01</b>	<b>&lt;0.1</b>	<b>0.033</b>	<b>0.063</b>
3	Koovanur Lake	16.09.2023	Inland Surface water	Pre	5.5	8.29	3.8	40	190	24.5	124	47	14	85	58	<0.0008	0.081	<0.01	<0.1	0.031	0.041
		20.09.2023		During	5.4	7.5	3.9	48	186	19.8	118	46	16	90	80	<0.0008	0.085	<0.01	<0.1	0.029	0.085
		22.09.2023		Post	<b>5.6</b>	<b>7.99</b>	<b>3.8</b>	<b>40</b>	<b>244</b>	<b>15.6</b>	<b>140</b>	<b>61</b>	<b>18</b>	<b>105</b>	<b>74</b>	<b>&lt;0.0008</b>	<b>0.079</b>	<b>&lt;0.01</b>	<b>&lt;0.1</b>	<b>0.035</b>	<b>0.065</b>
4	Aragandanalur	16.09.2023	Inland Surface water	Pre	5.3	7.99	4.6	24	389	2.6	242	98	12	160	94	<0.0008	0.043	<0.01	<0.1	0.024	0.027
		22.09.2023		During	5.3	7.94	4.7	32	426	2.2	254	107	14	170	110	<0.0008	0.061	<0.01	<0.1	0.043	0.071
		28.09.2023		Post	5.4	<b>8.07</b>	<b>4.6</b>	<b>32</b>	<b>432</b>	<b>3.6</b>	<b>260</b>	<b>108</b>	<b>14</b>	<b>185</b>	<b>96</b>	<b>&lt;0.0008</b>	<b>0.054</b>	<b>&lt;0.01</b>	<b>&lt;0.1</b>	<b>0.037</b>	<b>0.056</b>
5	Keeranur Lake	16.09.2023	Inland Surface water	Pre	5.3	7.84	4.8	40	1312	21	812	205	16	170	146	<0.0008	0.057	<0.01	<0.1	0.022	0.031
		20.09.2023		During	5.4	7.55	4.6	40	858	28.3	524	216	18	185	162	<0.0008	0.071	<0.01	<0.1	0.039	0.086
		22.09.2023		Post	<b>5.5</b>	<b>7.9</b>	<b>4.7</b>	<b>40</b>	<b>1026</b>	<b>13.5</b>	<b>694</b>	<b>258</b>	<b>22</b>	<b>190</b>	<b>150</b>	<b>&lt;0.0008</b>	<b>0.062</b>	<b>&lt;0.01</b>	<b>&lt;0.1</b>	<b>0.031</b>	<b>0.067</b>
6	Prithivi Mangalam	16.09.2023	Inland Surface water	Pre	5.5	8.18	3.5	24	1131	26.6	712	245	12	280	162	<0.0008	0.074	<0.01	<0.1	0.032	0.048
		20.09.2023		During	5.7	7.84	3.6	32	1084	80.6	708	273	14	290	174	<0.0008	0.079	<0.01	<0.1	0.044	0.076
		22.09.2023		Post	<b>5.7</b>	<b>8.01</b>	<b>3.5</b>	<b>24</b>	<b>1152</b>	<b>20</b>	<b>724</b>	<b>290</b>	<b>18</b>	<b>290</b>	<b>168</b>	<b>&lt;0.0008</b>	<b>0.078</b>	<b>&lt;0.01</b>	<b>&lt;0.1</b>	<b>0.039</b>	<b>0.064</b>



Analysis results (Physio-Chemical and Bacteriological Parameter) of different water bodies over Tamil Nadu State monitored during pre- and post-idol immersion activity during Ganesh Chaturthi - 2023

District : VILLUPURAM

S.No	Sampling Location	Date of sampling	Type of water body	Pre/ Post immersion sampling	General Parameters										Heavy Metals , mg/L						
					DO (mg/L)	pH	BOD (mg/L)	COD (mg/L)	Conductivity (µmhos/cm)	Turbidity (NTU)	Total Dissolved Solids (mg/L)	Chlorides (mg/L)	Total Suspended Solids (mg/L)	Total Hardness (mg/L)	Total Alkalinity (mg/L)	Cadmium (mg/L)	Copper (mg/L)	Chromium Total (mg/L)	Manganese (mg/L)	Lead (mg/L)	Zinc (mg/L)
7	Chinnasalem	16.09.2023	Inland Surface water	Pre	5.6	8.19	4.2	32	1779	6.8	1036	410	14	430	152	<0.0008	0.068	<0.01	<0.1	0.024	0.043
		20.09.2023		During	5.2	7.72	4.3	40	1647	6.6	1026	415	16	445	176	<0.0008	0.074	<0.01	<0.1	0.043	0.071
		22.09.2023		Post	5.6	7.77	4.4	40	1754	5.7	1090	442	18	450	172	<0.0008	0.069	<0.01	<0.1	0.037	0.056
8	Kaipanikkupam	15.09.2023	Sea	Pre	5.8	7.96	3	24	51810	21.3	30860	19394	12	6500	118	<0.0008	0.058	<0.01	<0.1	0.024	0.062
		20.09.2023		During	5.7	8.03	3.3	32	49070	21.3	30112	18865	16	6500	128	<0.0008	0.063	<0.01	<0.1	0.041	0.093
		26.09.2023		Post	5.6	8.07	3.2	32	50980	13.5	30564	19846	18	6600	124	<0.0008	0.066	<0.01	<0.1	0.033	0.088
9	Veedur Dam	15.09.2023	Inland Surface water	Pre	5.3	8.93	3.3	32	1250	3.1	760	185	14	200	160	<0.0008	0.069	<0.01	<0.1	0.021	0.018
		20.09.2023		During	5.3	8.51	3.4	40	936	25.4	648	235	16	220	168	<0.0008	0.077	<0.01	<0.1	0.029	0.047
		26.09.2023		Post	5.2	8.49	3.2	40	1053	20.1	704	265	18	235	164	<0.0008	0.072	<0.01	<0.1	0.023	0.026
10	Bommayapalayam	15.09.2023	Sea	Pre	5.3	7.99	3	24	50990	14.4	30260	19200	12	6100	116	<0.0008	0.091	<0.01	<0.1	0.022	0.065
		20.09.2023		During	5.4	8	3.3	32	50950	19.3	30714	19839	14	6200	128	<0.0008	0.092	<0.01	<0.1	0.028	0.085
		26.09.2023		Post	5.5	8.37	3.2	32	51490	12.5	30910	19975	16	6200	122	<0.0008	0.088	<0.01	<0.1	0.026	0.071
11	Ekiyarkuppam	15.09.2023	Sea	Pre	5.3	7.92	3.5	24	52050	13.8	31258	18594	14	6000	122	<0.0008	0.064	<0.01	<0.1	0.029	0.031
		20.09.2023		During	5.4	8.07	3.6	32	50560	8.4	30428	18741	16	6100	132	<0.0008	0.077	<0.01	<0.1	0.038	0.067
		26.09.2023		Post	5.4	8.01	3.5	24	50730	4.3	30982	18783	18	6100	120	<0.0008	0.071	<0.01	<0.1	0.03	0.046

INFERENCE: There is no marked difference in the sampled loaction over the Villupuram sight, with refence to Preimmersion and Post Immersion, that indicates pollution due to immersion of idol.

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priyanka.k.

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30/10/23  
DCSO (A & W)

DD (Labs) i/c

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Analysis results (Physio-Chemical and Bacteriological Parameter) of different water bodies over Tamil Nadu State monitored during pre- and post-idol immersion activity during Ganesh Chaturthi - 2023

District :OOTY

S.No	Sampling Location	Date of sampling	Type of water body	Pre/ Post immersion sampling	General Parameters											Heavy Metals						
					Color(Hazen Units)	DO (mg/L)	pH	BOD (mg/L)	COD (mg/L)	Conductivity (µmho/cm)	Turbidity (mg/L)	Total Dissolved Solids (mg/L)	Chlorides (mg/L)	Total Suspended Solids (mg/L)	Total Hardness (mg/L)	Total Alkalinity (mg/L)	Cadmium	Copper	Chromium Total	Manganese	Lead	Zinc
1	Ponnani River	14.09.20	River water	Pre	5	6.6	7.02	6	64	216	11.4	132	55	4	48	52	<0.0008	0.03612	<0.05	0.0180	<0.0015	0.0816
		24.09.20		During	5	6	8.03	8	72	334	23.6	240	68	12	70	68	<0.0008	0.0402	<0.05	0.0191	<0.0015	0.0786
		26.09.20		Post	5	6.6	7.5	9	72	313	12.8	180	65	8	58	52	<0.0008	0.0610	<0.05	0.0226	<0.0015	0.0881
2	Irumbu Palam near Gudalur	14.09.20	River water	Pre	5	6.2	7.34	6	56	291	12.8	168	65	6	56	56	<0.0008	<0.0015	<0.05	<0.001	<0.0015	<0.0015
		24.09.20		During	5	5.9	8.17	7	64	154	55.6	120	30	16	72	32	<0.0008	<0.0015	<0.05	<0.001	<0.0015	<0.0015
		26.09.20		Post	6	6.3	7.12	6	56	133	13.2	80	25	6	58	56	<0.0008	<0.0015	<0.05	0.0060	<0.0015	0.0061
3	Kamaraja Sagar Dam	14.09.20	River water	Pre	150	6.1	8.53	6	32	330	72.7	194	55	30	72	72	<0.0008	<0.0015	<0.05	<0.001	<0.0015	0.0136
		21.09.20		During	200	5.8	8.15	8	48	241	44.3	142	60	16	90	64	<0.0008	0.0102	<0.05	<0.001	<0.0015	0.0200
		26.09.20		Post	156	6	7.4	8	40	300	46.3	172	58	20	68	52	<0.0008	0.0201	<0.05	0.0033	<0.0015	0.0223
4	Uilhatty falls, Kothagiri	15.09.20	Dam water	Pre	5	6.7	8.25	4	24	168	8.1	104	35	8	52	52	<0.0008	<0.0015	<0.05	<0.001	<0.0015	0.019
		21.09.20		During	50	6.3	7.52	6	32	147	151	90	45	10	80	40	<0.0008	<0.0015	<0.05	<0.001	<0.0015	0.0112
		27.09.20		Post	10	6.7	6.96	6	40	124	9.2	78	24	8	48	42	<0.0008	0.0035	<0.05	<0.001	<0.0015	0.0266
5	Law Falls, Coonoor	15.09.20	River water	Pre	10	6.8	7.66	8	56	341	7.8	194	65	8	76	76	<0.0008	<0.0015	<0.05	<0.001	<0.0015	<0.0015
		22.09.20		During	5	6.2	8.01	12	64	479	7.7	380	90	4	110	60	<0.0008	<0.0015	<0.05	<0.001	<0.0015	<0.0015
		27.09.20		Post	10	6.8	6.88	9	72	116	7.9	70	22	10	56	50	<0.0008	0.0060	<0.05	<0.001	<0.0015	0.0101

INFERENCE: There is no marked difference in the sampled loaction over the Ooty sight, with refence to Preimmersion and Post Immersion, that indicates pollution due to immersion of idol.

*[Signature]*  
30/10/23  
ES  
prisonke.R.

*[Signature]*  
30/10/23  
DCSO(A&W)

DD (Labs)/c

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76, Mount Salai, Guindy,  
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**Analysis results (Physio-Chemical and Bacteriological Parameter) of different water bodies over Tamil Nadu State monitored during pre- and post-idol immersion activity during Ganesh Chaturthi - 2023**

**District :  
DINDIGUL**

S.No	Sampling Location	Date of sampling	Type of water body	Pre/ Post immersion sampling	General Parameters											Heavy Metals . mg/L					
					DO (mg/L)	pH	BOD (mg/L)	COD (mg/L)	Conductivity (µmho/cm)	Turbidity (mg/L)	Total Dissolved Solids (mg/L)	Chlorides (mg/L)	Total Suspended Solids (mg/L)	Total Hardness (mg/L)	Total Alkalinity (mg/L)	Cadmium	Copper	Chromium Total	Manganese	Lead	Zinc
1	Kudakanaru	11.09.2023	Surface Water	Pre	6.2	8.06	5	64	3721	<1.0	3124	1430	20	1080	172	0.099	0.052	<0.010	0.064	0.798	0.194
		21.09.2023		During	6.6	8.17	6	64	3897	2	3296	1480	28	1100	188	0.098	0.063	<0.010	0.072	0.808	0.198
		28.09.2023		Post	5.9	8.49	9	80	4100	2.11	3420	1510	32	1240	204	0.121	0.081	<0.010	0.078	0.822	0.171
2	Kanivadi - Machakulam	14.09.2023	Surface Water	Pre	6.5	7.61	13	88	492	30	352	75	170	130	28	0.073	0.135	<0.010	0.411	0.088	0.163
		20.09.2023		During	6.8	7.29	8	56	521	5	324	95	86	150	36	0.083	0.144	<0.010	0.492	0.093	0.172
		26.09.2023		Post	6.2	7.06	8	64	544	6.12	332	105	96	160	44	0.096	0.164	<0.010	0.501	0.117	0.194
3	Palani-Shanmuganathi	14.09.2023	Surface Water	Pre	6.4	8.13	3	16	623	2	428	75	8	230	48	0.081	0.088	<0.010	0.058	0.18	0.181
		21.09.2023		During	6.7	7.49	4	32	679	4	468	110	12	240	56	0.089	0.092	<0.010	0.062	0.194	0.193
		26.09.2023		Post	6.2	7.77	7	48	696	4	480	110	12	240	52	0.094	0.101	<0.010	0.11	0.208	0.198
4	Thalaikuthu-oddanchatram	14.09.2023	Surface Water	Pre	6.2	7.97	5	24	255	3	196	80	20	80	16	0.069	0.057	<0.010	0.139	0.047	0.104
		20.09.2023		During	6	8.05	5	40	319	5	232	95	28	90	24	0.078	0.068	<0.010	0.156	0.058	0.134
		26.09.2023		Post	5.8	7.52	5	48	333	5.36	240	95	32	90	28	0.088	0.082	<0.010	0.133	0.083	0.211
5	Erirodu-Nanthavanakulam	14.09.2023	Surface Water	Pre	6.7	8.14	<2.0	8	753	<1.0	524	130	8	230	44	0.072	0.064	<0.010	0.044	0.191	0.217
		20.09.2023		During	6.5	7.55	2	16	782	3	155	2	12	250	52	0.086	0.075	<0.010	0.058	0.198	0.238
		28.09.2023		Post	6.1	7.01	5	32	812	4.08	548	170	16	270	60	0.098	0.081	<0.010	0.075	0.211	0.179
6	Guziliyamparai	14.09.2023	Surface Water	Pre	6	7.07	4	24	127	4	78	15	18	40	12	0.062	0.078	<0.010	0.063	0.027	0.116
		21.09.2023		During	6.3	7.3	3	24	130	1.6	92	30	4	40	16	0.042	0.064	<0.010	0.032	0.104	0.12
		28.09.2023		Post	6.2	7.45	3	24	148	2	98	34	6	40	20	0.049	0.073	<0.010	0.044	0.109	0.128
7	Natham ammankulam	14.09.2023	Surface Water	Pre	7.1	8.06	<2.0	16	609	2	392	120	4	260	32	0.068	0.088	<0.010	0.044	0.073	0.152
		25.09.2023		During	6.7	8.01	3	24	678	4	448	140	10	280	40	0.072	0.09	<0.010	0.053	0.086	0.163
		27.09.2023		Post	6.4	8.24	6	40	721	4.55	464	155	16	310	40	0.058	0.099	<0.010	0.068	0.093	0.177
8	Sanarpatty	14.09.2023	Surface Water	Pre	6.9	7.47	6	32	241	129	156	40	30	80	24	0.061	0.088	<0.010	0.057	0.047	0.102
		21.09.2023		During	6.1	7.03	4	32	617	2.1	372	80	6	170	32	0.036	0.073	<0.010	0.028	0.114	0.132
		27.09.2023		Post	6	7.18	4	32	656	2.2	384	85	8	210	36	0.051	0.084	<0.010	0.049	0.138	0.198



**Analysis results (Physio-Chemical and Bacteriological Parameter) of different water bodies over Tamil Nadu State monitored during pre- and post-idol immersion activity during Ganesh Chaturthi - 2023**

**District :  
DINDIGUL**

S.No	Sampling Location	Date of sampling	Type of water body	Pre/ Post immersion sampling	General Parameters										Heavy Metals . mg/L						
					DO (mg/L)	pH	BOD (mg/L)	COD (mg/L)	Conductivity (µmho/cm)	Turbidity (mg/L)	Total Dissolved Solids (mg/L)	Chlorides (mg/L)	Total Suspended Solids (mg/L)	Total Hardness (mg/L)	Total Alkalinity (mg/L)	Cadmium	Copper	Chromium Total	Manganese	Lead	Zinc
9	Maruthanathi Dam	14.09.2023	Surface Water	Pre	6.4	7.73	<2.0	8	445	1	292	35	8	180	36	0.053	0.095	<0.010	0.029	0.178	0.141
		20.09.2023		During	6	7.99	2	16	485	2	324	45	16	200	40	0.068	0.012	<0.010	0.034	0.185	0.152
		26.09.2023		Post	5.8	8.02	3	24	522	3	348	56	18	208	44	0.073	0.018	<0.010	0.38	0.196	0.164
10	Anaipaty Vagai river	14.09.2023	Surface Water	Pre	6.6	7.88	3	14	671	3	424	135	12	170	48	0.043	0.075	<0.010	0.026	0.126	0.192
		20.09.2023		During	6.2	7.78	4	24	712	4.2	492	155	20	200	52	0.052	0.082	<0.010	0.039	0.134	0.196
		26.09.2023		Post	6	7.82	4	32	734	5	514	166	20	212	56	0.063	0.093	<0.010	0.048	0.142	0.202
11	Kottaikulam	14.09.2023	Surface Water	Pre	6.2	7.76	<2.0	8	173	3	120	30	6	90	16	0.037	0.069	<0.010	0.036	0.124	0.116
		20.09.2023		During	6.4	6.75	2	16	384	5	264	45	12	110	20	0.042	0.073	<0.010	0.045	0.136	0.124
		27.09.2023		Post	6.2	6.83	3	24	402	5	286	54	16	136	24	0.047	0.078	<0.010	0.056	0.148	0.135
12	Thadikombu-kadaganaru river	15.09.2023	Surface Water	Pre	6	7.95	4	24	6095	4	4052	1949	16	1560	144	0.049	0.126	<0.010	0.047	0.829	0.194
		21.09.2023		During	6.5	7.81	6	40	6183	6	4752	1990	28	2110	160	0.053	0.143	<0.010	0.054	0.905	0.198
		28.09.2023		Post	6	7.75	6	52	6196	7	4794	2005	30	2120	164	0.058	0.156	<0.010	0.063	0.913	0.208
13	vadamadurai	15.09.2023	Surface Water	Pre	6.5	7.93	<2.0	16	392	1	272	85	4	130	28	0.024	0.115	<0.010	0.023	0.19	0.192
		21.09.2023		During	6.8	8.04	2	24	436	3	296	90	10	180	32	0.032	0.127	<0.010	0.026	0.196	0.195
		-		Post	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	dhobikanal	16.09.2023	Surface Water	Pre	6.1	6.92	3	16	151	<1.0	92	15	10	30	12	0.078	0.012	<0.010	0.049	0.191	0.133
		25.09.2023		During	5.9	7.78	4	32	273	2	172	20	16	90	24	0.08	0.026	<0.010	0.052	0.108	0.143
		29.09.2023		Post	5.7	7.94	4	32	304	3	208	28	18	96	28	0.094	0.036	<0.010	0.057	0.115	0.158
15	Chinnalapatty	-	Surface Water	Pre	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		21.09.2023		During	6	7.08	2	24	1703	3	1076	225	4	530	28	0.046	0.058	<0.010	0.026	0.126	0.122
		26.09.2023		Post	6.2	7.22	2	16	1820	3.44	1108	250	8	560	36	0.064	0.091	<0.010	0.043	0.148	0.141

INFERENCE: There is no marked difference in the sampled loaction over the Dindugul sight with refence to Preimmersion and Post Immersion that indicates pollution due to immersion of idol.

*[Signature]*  
20/10/23  
ES  
priyanka

*[Signature]*  
20/10/23  
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DD(Labs) i/c

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Tamilnadu Pollution Control  
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Analysis results (Physio-Chemical and Bacteriological Parameter) of different water bodies over Tamil Nadu State monitored during pre- and post-idol immersion activity during Ganesh Chaturthi - 2023

District : THENI

S.No	Sampling Location	Date of sampling	Type of water body	Pre/ Post immersion sampling	General Parameters										Heavy Metals mg/L							
					DO (mg/L)	pH	BOD (mg/L)	COD (mg/L)	Conductivity (µmho/cm)	Turbidity (mg/L)	Total Dissolved Solids (mg/L)	Chlorides (mg/L)	Total Suspended Solids (mg/L)	Total Hardness (mg/L)	Total Alkalinity (mg/L)	Cadmium	Cobalt	Copper	Chromium Total	Manganese	Lead	Zinc
1	Cumbum Surulipatti Road.	15.09.2023	River Water Sample	Pre	6.9	7.15	<2	8	72	<1.0	52	10	6	30	12	0.011	0.075	0.088	<0.010	0.049	0.008	0.097
		19.09.2023		During	7.1	7.03	2	15	118	2	88	25	8	44	16	0.018	0.082	0.093	<0.010	0.052	0.01	0.012
		25.09.2023		Post	6.8	7.05	3	24	134	3	96	34	10	48	20	0.023	0.088	0.096	<0.010	0.064	0.018	0.016
2	Uthamapalayam	15.09.2023	River Water Sample	Pre	7.1	7.3	3	16	107	2	76	15	12	40	16	0.06	0.143	0.044	<0.010	0.063	0.014	0.057
		19.09.2023		During	7	7.28	4	24	147	3	104	25	14	60	20	0.072	0.154	0.056	<0.010	0.068	0.018	0.067
		25.09.2023		Post	6.7	7.32	4	32	168	2	122	38	18	64	24	0.083	0.172	0.064	<0.010	0.072	0.023	0.072
3	Chinnamanur	15.09.2023	River Water Sample	Pre	7	7.43	<2	8	124	2	84	20	6	40	16	0.033	0.176	0.102	<0.010	0.085	0.081	0.08
		20.09.2023		During	6.6	7.43	2	16	181	3	128	40	8	70	20	0.042	0.187	0.123	<0.010	0.088	0.092	0.091
		25.09.2023		Post	6.4	7.5	3	24	194	3	136	46	12	70	28	0.052	0.194	0.132	<0.010	<0.094	0.098	0.096
4	Kottakudi-Bodi	15.09.2023	River Water Sample	Pre	6.7	7.82	<2	8	939	<1.0	660	130	4	220	96	0.061	0.119	0.076	<0.010	0.063	0.077	0.159
		19.09.2023		During	6.8	7.46	2	16	1107	2	772	140	8	350	104	0.069	0.128	0.086	<0.010	0.074	0.082	0.162
		25.09.2023		Post	6.2	7.52	2	24	1138	3	784	155	10	350	110	0.074	0.135	0.093	<0.010	0.08	0.086	0.173
5	Arnmanaipudur	15.09.2023	River Water Sample	Pre	6.9	7.63	3	16	205	1	136	40	10	70	28	0.039	0.089	0.022	<0.010	0.092	0.036	0.106
		19.09.2023		During	6.5	7.68	4	32	231	3	172	45	12	90	36	0.048	0.094	0.034	<0.010	0.096	0.039	0.114
		25.09.2023		Post	6.1	7.54	4	32	262	4	196	58	16	98	40	0.056	0.103	0.044	<0.010	<0.104	0.043	0.122
6	Vaigai Dam D/S	15.09.2023	River Water Sample	Pre	6.5	7.63	3	24	311	1	208	35	12	90	20	0.018	0.198	0.02	<0.010	0.031	0.012	0.116
		19.09.2023		During	6.4	7.58	4	24	362	2	248	42	16	110	28	0.025	0.197	0.028	<0.010	0.042	0.016	0.12
		25.09.2023		Post	6.5	7.63	4	32	388	3	254	50	20	120	32	0.033	0.198	0.029	<0.010	0.049	0.023	0.134
7	Arulmigu Balasubramanian Thirukovil	15.09.2023	River Water Sample	Pre	7.2	7.92	<2	8	332	<1.0	216	25	4	120	28	0.033	0.076	0.039	<0.010	0.079	0.023	0.178
		18.09.2023		During	6.3	7.56	4	32	357	1.18	236	35	8	140	32	0.046	0.087	0.045	<0.010	0.084	0.023	0.182
		25.09.2023		Post	6.3	7.45	3	32	366	2	244	38	10	152	36	0.059	0.095	0.057	<0.010	0.086	0.032	0.023
8	Varasanadu-Mottapparai Check Dam	15.09.2023	River Water Sample	Pre	7.2	7.51	3	24	124	<1.0	88	24	16	40	16	0.037	0.372	0.031	<0.010	0.092	0.039	0.096
		19.09.2023		During	6.8	6.65	3	32	407	4	268	55	16	90	12	0.051	0.092	0.036	<0.010	0.063	0.014	0.153
		25.09.2023		Post	6.6	7.02	3	24	435	4	272	60	18	96	16	0.061	0.098	0.044	<0.010	0.075	0.023	0.162

INFERENCE: There is no marked difference in the sampled loaction-over the Theni sight, with refence to Preimmersion and Post Immersion, that indicates pollution due to immersion of idol.

*Ph*  
30/10/23  
ES  
priyanka.k.

*DD (ARW)*  
DCSO (ARW)

DD (Labs) i/c

DEPUTY DIRECTOR (L)  
Tamilnadu Pollution Control  
76, Mount Salai, Guind  
Chennai-600 032



Analysis results (Physio-Chemical and Bacteriological Parameter) of different water bodies over Kanyakumari monitored pre-, during & post -idol immersion activity during Ganesh Chaturthi - 2023

District : KANYAKUMARI

SL. No	Sampling Location in Kanyakumari	Date of sampling	Type of water body	Immersion Sampling	General Parameters										Heavy Metals in mg/L						Microbiological Parameter		
					DO (mg/L)	pH	BOD (mg/L)	COD (mg/L)	Conductivity (µmho/cm)	Turbidity (mg/L)	Total Dissolved Solids (mg/L)	Chlorides (mg/L)	Total Suspended Solids (mg/L)	Total Hardness (mg/L)	Total Alkalinity (mg/L)	Cadmium	Copper	Chromium Total	Manganese	Lead	Zinc	Fecal Coliform ,MPN/100ml	Total Coliform ,MPN/100ml
1	Pallikonam	14.09.2023	River	Pre	5.7	6.73	5	40	145	3	104	25	6	24	8	<0.0008	0.024	<0.01	<0.1	<0.015	0.028	5.5	17
		24.09.2023		During	4.6	6.92	13	104	328	5	244	70	12	96	16	<0.0008	0.053	<0.01	<0.1	<0.015	0.065	6.1	21
		26.09.2023		Post	5.8	6.95	4	32	106	3	82	18	4	20	4	<0.0008	0.019	<0.01	<0.1	<0.015	0.02	6	24
2	Tirparapu falls	14.09.2023	River	Pre	5.9	6.85	3	24	152	3	116	30	4	28	12	<0.0008	0.022	<0.01	<0.1	<0.015	0.021	5.5	13
		24.09.2023		During	4.2	6.85	10	80	295	6	216	70	10	110	24	<0.0008	0.058	<0.01	<0.1	<0.015	0.039	7.8	17
		26.09.2023		Post	6	6.91	4	32	90	3	68	16	4	24	8	<0.0008	0.019	<0.01	<0.1	<0.015	0.024	6.8	14
3	Tamirabarani (Kuzhiturai)	14.09.2023	River	Pre	5.8	6.55	3	24	164	3	112	38	8	24	12	<0.0008	0.028	<0.01	<0.1	<0.015	0.021	9.1	21
		24.09.2023		During	4.1	6.9	9	72	348	5	260	75	12	110	24	<0.0008	0.036	<0.01	<0.1	<0.015	0.056	10	25
		26.09.2023		Post	5.7	6.98	3	24	129	3	96	30	6	20	8	<0.0008	0.021	<0.01	<0.1	<0.015	0.025	9.2	24
4	Thengapattanam Beach	14.09.2023	Sea	Pre	5.9	7.48	4	32	35100	6	27396	15450	28	1860	96	<0.0008	0.058	<0.01	<0.1	<0.015	0.064	13	31
		24.09.2023		During	4.3	7.65	9	72	46400	11	35264	18496	36	3960	228	<0.0008	0.089	<0.01	<0.1	<0.015	0.086	15	38
		26.09.2023		Post	6	7.28	4	32	35300	6	27420	15560	24	1940	108	<0.0008	0.049	<0.01	<0.1	<0.015	0.059	12	36
5	Midalam Beach	14.09.2023	Sea	Pre	6	7.54	3	24	38200	4	29928	16525	32	2160	92	<0.0008	0.047	<0.01	<0.1	<0.015	0.072	8.1	21
		24.09.2023		During	4.1	7.6	8	64	45200	9	33916	18560	40	3260	196	<0.0008	0.079	<0.01	<0.1	<0.015	0.089	7.8	25
		26.09.2023		Post	5.9	7.11	3	24	37400	4	28424	15960	28	1920	80	<0.0008	0.039	<0.01	<0.1	<0.015	0.063	8.2	26



Analysis results (Physio-Chemical and Bacteriological Parameter) of different water bodies over Kanyakumari monitored pre-, during & post -idol immersion activity during Ganesh Chaturthi - 2023

District : KANYAKUMARI

SL. No	Sampling Location in Kanyakumari	Date of sampling	Type of water body	Immersion Sampling	General Parameters														Heavy Metals in mg/L						Microbiological Parameter	
					DO (mg/L)	pH	BOD (mg/L)	COD (mg/L)	Conductivity (µmho/cm)	Turbidity (mg/L)	Total Dissolved Solids (mg/L)	Chlorides (mg/L)	Total Suspended Solids (mg/L)	Total Hardness (mg/L)	Total Alkalinity (mg/L)	Cadmium	Copper	Chromium Total	Manganese	Lead	Zinc	Fecal Coliform ,MPN/100ml	Total Coliform ,MPN/100ml			
					6	Chinna vilai Beach	14.09.2023	Sea	Pre	5.9	7.59	4	32	37700	4	29364	14328	24	2360	116	<0.0008	0.065	<0.01	<0.1	<0.015	0.078
		24.09.2023		During	4.2	7.68	7	56	47200	8	34932	17865	30	3640	216	<0.0008	0.083	<0.01	<0.1	<0.015	0.092	10	26			
		26.09.2023		Post	6	7.51	4	32	38400	4	28432	14860	24	2490	152	<0.0008	0.057	<0.01	<0.1	<0.015	0.065	9.2	25			
7	Vettumadai Beach	14.09.2023	Sea	Pre	5.8	7.62	5	40	38700	5	30268	16495	32	2320	56	<0.0008	0.056	<0.01	<0.1	<0.015	0.076	9.1	25			
		24.09.2023		During	4.4	7.32	9	72	46300	9	34720	18960	40	3280	184	<0.0008	0.081	<0.01	<0.1	<0.015	0.092	10	31			
		26.09.2023		Post	5.5	7.28	4	32	38300	5	28728	15960	28	1860	48	<0.0008	0.049	<0.01	<0.1	<0.015	0.063	9.3	26			
8	Chothavilai Beach	14.09.2023	Sea	Pre	5.8	7.57	3	24	37200	5	29420	14496	32	1960	148	<0.0008	0.07	<0.01	<0.1	<0.015	0.071	10	24			
		24.09.2023		During	4.5	7.59	8	64	46700	8	35062	17960	40	3860	236	<0.0008	0.085	<0.01	<0.1	<0.015	0.089	9.2	21			
		26.09.2023		Post	5.9	7.41	3	24	38500	5	29260	14620	28	2080	160	<0.0008	0.062	<0.01	<0.1	<0.015	0.059	11	26			
9	Sanguthurai Beach	14.09.2023	Sea	Pre	6	7.59	3	24	37900	4	29964	13994	28	1860	72	<0.0008	0.068	<0.01	<0.1	<0.015	0.075	11	31			
		24.09.2023		During	4.3	7.62	8	64	44600	7	33468	16495	34	2980	172	<0.0008	0.086	<0.01	<0.1	<0.015	0.086	8.2	14			
		26.09.2023		Post	5.8	7.31	3	24	38200	4	28672	14160	28	1980	76	<0.0008	0.056	<0.01	<0.1	<0.015	0.063	10	17			
10	Kanyakumari Beach	14.09.2023	Sea	Pre	5.8	7.64	4	32	36300	5	28960	14360	32	1940	36	<0.0008	0.06	<0.01	<0.1	<0.015	0.073	9.1	21			
		24.09.2023		During	4.2	7.81	9	72	47800	9	35384	18460	40	3890	232	<0.0008	0.072	<0.01	<0.1	<0.015	0.087	9.3	24			
		26.09.2023		Post	6	7.21	4	32	38400	5	29160	14580	32	2180	48	<0.0008	0.051	<0.01	<0.1	<0.015	0.068	10	17			

INFERENCE: There is no marked difference in the sampled loaction over the Kanyakumari sight, with refence to Preimmersion and Post Immersion, that indicates pollution due to immersion of idol.

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**Analysis results (Physio-Chemical and Bacteriological Parameter) of different water bodies over monitored pre-, during & post -idol immersion activity during Ganesh Chaturthi - 2023**

**District : Salem**

SL. No	Sampling Location	Date of sampling	Type of water body	Immersion Sampling	General Parameters								Heavy Metals							Microbiological Parameters MPN/100ml			
					DO (mg/L)	pH	BOD (mg/L)	COD (mg/L)	Conductivity (µmho/cm)	Turbidity (mg/L)	Total Dissolved Solids (mg/L)	Chlorides (mg/L)	Total Suspended Solids (mg/L)	Total Hardness (mg/L)	Total Alkalinity (mg/L)	Cadmium	Copper	Chromium Total	Manganese	Lead	Zinc	Fecal Coliform	Total Coliform
1	Anaimedu Dam	13.09.23	River	Pre	6.4	7.68	<2	16	896	0.92	548	56	4	330	392	<0.05	<0.1	<0.05	<0.1	<0.3	<0.03	11	39
		20.09.23		During	6	7.68	2.4	24	902	2.24	568	52	8	350	416	<0.05	<0.1	<0.05	<0.1	<0.3	<0.03	17	40
		26.09.23		Post	6	7.44	<2	24	921	2.42	572	54	8	290	344	<0.05	<0.1	<0.05	<0.1	<0.3	<0.03	12	24
2	Maniyarkundam Lake	13.09.23	River	Pre	6.9	8.43	<2	16	362	0.91	268	18	4	190	188	<0.05	<0.1	<0.05	<0.1	<0.3	<0.03	11	32
		20.09.23		During	6.1	8.37	2.7	32	378	2.62	288	16	12	200	180	<0.05	<0.1	<0.05	<0.1	<0.3	<0.03	24	39
		26.09.23		Post	6.3	7.45	2.4	24	441	6.92	332	14	8	200	176	<0.05	<0.1	<0.05	<0.1	<0.3	<0.03	9.2	20
3	Muttal Lake	13.09.23	River	Pre	5.8	7.19	<2	16	668	0.94	464	26	4	360	316	<0.05	<0.1	<0.05	<0.1	<0.3	<0.03	14	39
		20.09.23		During	5.8	7.89	<2	24	535	4.18	388	16	8	180	136	<0.05	<0.1	<0.05	<0.1	<0.3	<0.03	20	47
		26.09.23		Post	5.8	7.42	<2	24	597	2.29	424	16	8	140	124	<0.05	<0.1	<0.05	<0.1	<0.3	<0.03	24	39
4	Ottamparai Lake	13.09.23	River	Pre	5.8	7.43	2.1	16	538	0.83	388	58	4	250	216	<0.05	<0.1	<0.05	<0.1	<0.3	<0.03	12	30
		22.09.23		During	5.6	7.62	2.4	24	500	6.42	376	48	8	240	192	<0.05	<0.1	<0.05	<0.1	<0.3	<0.03	26	47
		26.09.23		Post	5.6	7.34	2.4	24	546	4.96	396	52	8	210	188	<0.05	<0.1	<0.05	<0.1	<0.3	<0.03	24	30
5	Sentharpatti Lake	15.09.23	River	Pre	5.7	7.16	2.4	24	502	2.8	292	40	8	260	92	<0.05	<0.1	<0.05	<0.1	<0.3	<0.03	9.1	20
		20.09.23		During	5.2	8.18	2.7	32	641	4.26	393	64	12	240	140	<0.05	<0.1	<0.05	<0.1	<0.3	<0.03	12	24
		26.09.23		Post	5.7	7.81	2.4	24	683	3.99	408	66	12	240	172	<0.05	<0.1	<0.05	<0.1	<0.3	<0.03	9.2	14
6	Jangama samutharam Lake	14.09.2023	River	Pre	6.3	7.52	<2	16	435	0.82	284	20	4	210	192	<0.05	<0.1	<0.05	<0.1	<0.3	<0.03	11	3
		19.09.2023		During	6.2	8.4	<2	24	448	4.48	304	28	8	220	184	<0.05	<0.1	<0.05	<0.1	<0.3	<0.03	24	3
		22.09.2023		Post	6.1	7.71	<2	24	466	2.89	308	26	8	220	184	<0.05	<0.1	<0.05	<0.1	<0.3	<0.03	12	3
7	Seelanai kenpatti Lake	15.09.23	River	Pre	7	7.12	<2	16	1075	0.84	604	185	4	200	264	<0.05	<0.1	<0.05	<0.1	<0.3	<0.03	6.8	9
		-		During	No immersion																		
		-		Post																			
8	Kumaragiri Lake	15.09.23	River	Pre	6.1	7.34	2.4	24	2500	0.94	1464	450	8	430	712	<0.05	<0.1	<0.05	<0.1	<0.3	<0.03	11	
				During	No immersion																		
				Post																			
9	Mookaneri Lake	15.09.23	River	Pre	2.8	7.2	3.9	32	1243	0.78	808	175	12	400	400	<0.05	<0.1	<0.05	<0.1	<0.3	<0.03	14	
		20.09.23		During	1.9	8.25	5.2	48	1314	4.35	936	158	24	430	368	<0.05	<0.1	<0.05	<0.1	<0.3	<0.03	14	
		27.09.23		Post	2.4	7.8	3.6	32	1420	2.64	964	184	16	440	388	<0.05	<0.1	<0.05	<0.1	<0.3	<0.03	11	

INFERENCE: There is no marked difference in the sampled loaction over the Salem sight with, refence to Preimmersion and Post Immersion, that indicates pollution due to immersion of idol.

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**Analysis results (Physio-Chemical and Bacteriological Parameter) of different water bodies over Tamil Nadu State monitored during pre- and post-idol immersion activity during Ganesh Chaturthi - 2023**

**District :  
NAGAPATTINAM**

S.No	Sampling Location	Date of sampling	Type of water body	Pre/ Post immersion sampling	Lab code	General Parameter										Heavy Metals							
						DO (mg/L)	pH	BOD (mg/L)	COD (mg/L)	Conductivity (µmhos/cm)	Turbidity (NTU)	Total Dissolved Solids (mg/L)	Chlorides (mg/L)	Total Suspended Solids (mg/L)	Total Hardness (mg/L)	Total Alkalinity (mg/L)	Cadmium (mg/L)	Cobalt (mg/L)	Copper (mg/L)	Chromium Total (mg/L)	Manganese (mg/L)	Lead (mg/L)	Zinc (mg/L)
1	Vettaru River at Nagore Bridge	16.09.2023	River (Estuary)	Pre	868	5.3	7.94	3.1	32	52570	24.9	32066	14247	14	4800	142	<0.0008	FNA	0.12	<0.01	<0.1	0.036	0.059
		24.09.2023		During	933	5.4	7.87	3.2	40	36400	36	22314	9172	16	4900	156	<0.0008	FNA	0.131	<0.01	<0.1	0.049	0.081
		26.09.2023		Post	941	<b>5.4</b>	<b>7.59</b>	<b>3.1</b>	<b>40</b>	<b>40080</b>	<b>30.2</b>	<b>24528</b>	<b>10100</b>	<b>18</b>	<b>5100</b>	<b>150</b>	<b>&lt;0.0008</b>	<b>FNA</b>	<b>0.126</b>	<b>&lt;0.01</b>	<b>&lt;0.1</b>	<b>0.045</b>	<b>0.061</b>
2	Nagapattinam New Beach	16.09.2023	Sea	Pre	869	5.7	7.88	3.2	32	51120	6	30672	18882	12	5200	152	<0.0008	FNA	0.091	<0.01	<0.1	0.028	0.051
		24.09.2023		During	934	5.5	8.08	3.2	40	52120	6.5	32836	19134	14	5200	132	<0.0008	FNA	0.103	<0.01	<0.1	0.036	0.077
		26.09.2023		Post	<b>942</b>	<b>5.2</b>	<b>8.02</b>	<b>3.4</b>	<b>40</b>	<b>51330</b>	<b>6</b>	<b>32030</b>	<b>18935</b>	<b>16</b>	<b>5300</b>	<b>120</b>	<b>&lt;0.0008</b>	<b>FNA</b>	<b>0.099</b>	<b>&lt;0.01</b>	<b>&lt;0.1</b>	<b>0.032</b>	<b>0.072</b>
3	Poompuhar Beach	16.09.2023	Sea	Pre	870	5.3	7.79	3.4	24	51430	8.4	31578	18960	14	6300	126	<0.0008	FNA	0.087	<0.01	<0.1	0.027	0.044
		19.09.2023		During	885	5.5	7.5	3.5	32	51380	5.9	30880	18947	14	6400	128	<0.0008	FNA	0.098	<0.01	<0.1	0.038	0.072
		23.09.2023		Post	<b>936</b>	<b>5.3</b>	<b>7.86</b>	<b>3.7</b>	<b>32</b>	<b>47840</b>	<b>5.6</b>	<b>29182</b>	<b>19055</b>	<b>16</b>	<b>6400</b>	<b>144</b>	<b>&lt;0.0008</b>	<b>FNA</b>	<b>0.092</b>	<b>&lt;0.01</b>	<b>&lt;0.1</b>	<b>0.031</b>	<b>0.061</b>
4	Sirkali Uppanar River	16.09.2023	River (Estuary)	Pre	871	5.3	7.97	3.4	32	17110	8.9	10488	4311	16	2010	150	<0.0008	FNA	0.091	<0.01	<0.1	0.021	0.052
		19.09.2023		During	886	5.4	8.02	3.5	40	16590	9.7	10334	4180	18	2050	192	<0.0008	FNA	0.097	<0.01	<0.1	0.032	0.079
		23.09.2023		Post	<b>937</b>	<b>5.7</b>	<b>7.95</b>	<b>3.5</b>	<b>40</b>	<b>18620</b>	<b>8.4</b>	<b>11752</b>	<b>4692</b>	<b>20</b>	<b>2070</b>	<b>164</b>	<b>&lt;0.0008</b>	<b>FNA</b>	<b>0.089</b>	<b>&lt;0.01</b>	<b>&lt;0.1</b>	<b>0.027</b>	<b>0.077</b>



5	Mayiladuthurai Cauvery River	16.09.2023	River Water	Pre	872	5.3	7.65	3.6	32	370	2	208	58	14	170	132	<0.0008	FNA	0.068	<0.01	<0.1	0.026	0.052
		19.09.2023		During	887	5.4	8.42	3.8	40	467	3.4	286	73	16	180	136	<0.0008	FNA	0.078	<0.01	<0.1	0.032	0.078
		23.09.2023		Post	938	5.6	7.86	3.7	40	398	3.4	244	62	16	190	202	<0.0008	FNA	0.072	<0.01	<0.1	0.029	0.061
6	Muthupettai Bamini River	16.09.2023	River Water	Pre	873	5.3	7.71	3.8	40	668	2.3	368	117	12	200	186	<0.0008	FNA	0.063	<0.01	<0.1	0.02	0.031
		24.09.2023		During	935	5.2	8.61	3.9	48	846	1	466	149	14	210	248	<0.0008	FNA	0.081	<0.01	<0.1	0.026	0.088
		26.09.2023		Post	943	5.4	8.29	3.7	48	769	2.8	384	135	18	225	270	<0.0008	FNA	0.075	<0.01	<0.1	0.025	0.062
7	Thriuvavur Odampokki River	16.09.2023	River Water	Pre	874	5.3	7.6	3.8	24	702	4.2	352	123	16	205	200	<0.0008	FNA	0.069	<0.01	<0.1	0.031	0.072
		20.09.2023		During	888	5.5	7.76	3.7	32	480	21.9	240	90	18	200	260	<0.0008	FNA	0.077	<0.01	<0.1	0.041	0.087
		24.09.2023		Post	939	5.7	8.35	3.8	32	777	3.6	388	137	22	210	240	<0.0008	FNA	0.072	<0.01	<0.1	0.039	0.079
8	Koothanallur Vennar River	16.09.2023	River Water	Pre	875	5.8	7.47	3.4	32	602	2.3	294	106	14	190	166	<0.0008	FNA	0.082	<0.01	<0.1	0.033	0.016
		20.09.2023		During	889	5.6	8.15	3.5	32	818	3.6	400	144	18	210	204	<0.0008	FNA	0.093	<0.01	<0.1	0.041	0.045
		24.09.2023		Post	940	5.6	8.79	3.4	32	932	3.4	456	164	16	240	218	<0.0008	FNA	0.088	<0.01	<0.1	0.035	0.032

INFERENCE: There is no marked difference in the sampled loaction over the Nagapattinam sight, with refence to Preimmersion and Post Immersion, that indicates pollution due to immersion of idol.

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Analysis results (Physio-Chemical and Bacteriological Parameter) of different water bodies over Tamil Nadu State monitored during pre- and post-idol immersion activity during Ganesh Chaturthi - 2023																				District : CUDDALORE			
S.No	Sampling Location	Date of sampling	Type of water body	Pre/Post immersion sampling	General Parameters											Heavy Metals ,mg/L							
					Lab Code	DO (mg/L)	pH	BOD (mg/L)	COD (mg/L)	Conductivity (µmhos/cm)	Turbidity (NTU)	Total Dissolved Solids (mg/L)	Chlorides (mg/L)	Total Suspended Solids (mg/L)	Total Hardness (mg/L)	Total Alkalinity (mg/L)	Cadmium (mg/L)	Copper (mg/L)	Chromium Total (mg/L)	Manganese (mg/L)	Lead (mg/L)	Zinc (mg/L)	
1	River Kollidam near Vallampadugai Road Bridge	13.09.2023	River (Estuary)	Pre	783	5.6	7.97	3.2	32	32150	1.1	17136	10996	14	4000	124	<0.0008	0.053	<0.01	<0.1	0.028	0.084	
				During	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		21.09.2023		Post	898	5.5	8.08	3.3	40	34112	1.7	19326	12894	18	4100	130	<0.0008	0.059	<0.01	<0.1	0.031	0.091	
2	River Vellaru Near Bhuvanagiri Raod Bridge	13.09.2023	River (Estuary)	Pre	784	5.6	8.25	3.1	32	23840	0.7	14012	9011	16	2900	154	<0.0008	0.071	<0.01	<0.1	0.031	0.071	
				During	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		21.09.2023		Post	899	5.6	7.85	3.2	40	30380	0.9	16236	11483	22	3000	144	<0.0008	0.072	<0.01	<0.1	0.033	0.078	
3	Bay of Bengal at Samiyarpettai Baach	13.09.2023	Sea	Pre	785	5.6	8.03	2.9	24	51530	1.6	30256	19393	12	6500	124	<0.0008	0.091	<0.01	<0.1	0.036	0.086	
				During	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		21.09.2023		Post	900	5.7	7.96	3	32	48200	1.1	30012	17619	16	6500	120	<0.0008	0.093	<0.01	<0.1	0.041	0.092	
4	River Uppanaru near Rosapettai Road Bridge	13.09.2023	River (Estuary)	Pre	786	5.4	8.11	3	32	40090	0.9	25232	14995	14	5000	134	<0.0008	0.082	<0.01	<0.1	0.027	0.058	
				During	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		21.09.2023		Post	901	5.5	8.07	3.1	40	30320	1.4	15488	11460	18	5100	146	<0.0008	0.086	<0.01	<0.1	0.031	0.064	
5	Bay of Bengal at Devanampattinam Silver Beach	13.09.2023	Sea	Pre	787	5.6	8.01	3	24	51800	1.9	31252	19593	14	6600	120	<0.0008	0.089	<0.01	<0.1	0.026	0.041	
				During	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		21.09.2023		Post	902	5.5	7.9	3.2	32	50800	2.1	30256	18602	16	6700	128	<0.0008	0.091	<0.01	<0.1	0.032	0.04	

INFERENCE: There is no marked difference in the sampled loaction over the Cuddalore sight, with refence to Preimmersion and Post Immersion, that indicates pollution due to immersion of idol.

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Analysis results (Physio-Chemical and Bacteriological Parameter) of different water bodies over Tamil Nadu State monitored during pre- and post-idol immersion activity during Ganesh Chaturthi - 2023																						District : RAMANATHAPURAM		
S.No	Sampling Location	Date of sampling	Type of water body	Pre/ Post immersion sampling	General Parameters											Heavy Metals mg/L						Micro Biological, MPN/100ml		
					Color(Hazen Units)	DO (mg/L)	pH	BOD (mg/L)	COD (mg/L)	Conductivity (µmho/cm)	Turbidity (mg/L)	Total Dissolved Solids (mg/L)	Chlorides (mg/L)	Total Suspended Solids (mg/L)	Total Hardness (mg/L)	Total Alkalinity (mg/L)	Cadmium	Copper	Chromium Total	Manganese	Lead	Zinc	Fecal Coliform	Total Coliform
1	NAVAPASANAM SEASHORE, DEVIPATTINAM	16.09.2023	Seashore	Pre	<5	6.4	7.31	32	232	58400	12	52900	30990	48	480	400	<0.0008	<0.0015	0.29	0.073	0.17	0.052	1.8	14
		20.09.2023		During	<5	3.2	7.49	36	1048	55600	14	38900	30993	36	720	600	0.003	0.02	0.324	0.218	0.234	0.06	1.8	24
		25.09.2023		Post	<5	2.8	7.42	40	1440	55900	10	39100	35492	40	740	640	0.003	0.026	0.38	4.035	0.267	0.358	12	34
2	NOCHIVAYAL OORANI	16.09.2023	Oorani	Pre	<5	5.9	7.42	5	32	806	83	554	105	46	216	108	<0.0008	<0.0015	0.038	0.139	0.134	0.057	1.8	12
		20.09.2023		During	<5	5.5	6.95	6	32	652	16	460	170	12	490	320	0.003	0.018	0.042	0.282	0.254	0.072	2	33
		25.09.2023		Post	<5	4.9	6.42	10	88	2850	12	1996	800	16	920	520	0.004	0.027	0.073	0.243	0.103	0.361	12	49
INFERENCE: There is no marked difference in the sampled loaction over the Ramanathapuram sight ,with refence to Preimmersion and Post Immersion, that indicates pollution due to immersion of idol.																								

  
 30/10/23  
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**Analysis results (Physio-Chemical and Bacteriological Parameter) of different water bodies over Tamil Nadu State monitored during pre- and post-idol immersion activity during Ganesh Chaturthi - 2023**

District : Hosur, Krishnagiri District

S.No	Sampling Location	Date of sampling	Type of water body	Pre/ Post immersion sampling	General Parameters												Heavy Metals				Micro Biological	
					Color- visibility	DO (mg/L)	pH	BOD (mg/L)	COD (mg/L)	Conductivity (µmho/cm)	Turbidity (mg/L)	Total Dissolved Solids (mg/L)	Chlorides (mg/L)	Total Suspended Solids (mg/L)	Total Hardness (mg/L)	Total Alkalinity (mg/L)	Copper	Chromium Total	Lead	Zinc	Fecal Coliform	Total Coliform
1	Chandrambigal Lake, Near Chandrasudesar Temple, Hosur Town, Hosur Taluk, Krishnagiri District.	18.9.2023	Temple Lake runoff from hill areas	Pre	Ash colour	6.1	7.23	2	8	1235	2	6	225	6	142	80	0.515	<MDL	0.091	<MDL	11	17
		22.9.2023		During	Ash colour	5.8	6.8	4	24	1342	6	18	260	18	168	92	0.519	0.008	0.092	<MDL	17	33
		26.9.2023		Post	Ash colour	6.0	7.02	4	16	1217	4	10	212	10	152	84	0.324	<MDL	0.071	<MDL	12	24
2	Ramanayagan Lake, Opposite to Government General Hospital, Hosur Town, Hosur Taluk, Krishnagiri District.	18.9.2023	Irrigation lake as per the Water Resource Organisation (WRO)	Pre	Slightly ash	5.9	7.18	5	24	1216	7	105	200	4	141	98	0.152	<MDL	<MDL	0.071	110	270
		22.9.2023		During	Slightly ash	5.9	7.02	4	32	1302	12	112	208	6	168	99	0.132	<MDL	0.004	0.098	170	390
		26.9.2023		Post	Slightly ash	6	7.37	4	24	1235	10	108	180	2	152	97	0.148	<MDL	0.003	0.068	140	320
3	Kelavarapalli Dam, Kelavarapalli Village, Hosur Taluk, Krishnagiri District.	18.9.2023	Irrigation Tank	Pre	Slightly turbid	5.5	7.52	6	24	3111	15	210	985	8	222	112	0.725	0.028	<MDL	0.178	68	240
		22.9.2023		During	Slightly turbid	5.2	7.12	8	32	3412	15	230	970	12	236	118	0.682	0.019	<MDL	0.152	92	210
		26.9.2023		Post	Slightly turbid	5.0	7.58	6	16	3157	14	215	980	10	239	124	0.692	0.008	<MDL	0.162	68	120
4	Achettipalli Lake, Achettipalli Village, Hosur Taluk, Krishnagiri District.	18.9.2023	Irrigation Tank	Pre	Clear	5.9	7.69	2	8	1267	8	75	215	4	148	106	<MDL	<MDL	<MDL	0.821	11	17
		22.9.2023		During	Slightly ash	5.5	7.21	4	24	1512	8	120	180	4	152	120	<MDL	<MDL	0.007	0.736	12	24
		26.9.2023		Post	Clear	5.5	7.81	2	24	1317	8	110	192	6	152	118	<MDL	<MDL	<MDL	0.801	11	22
5	Santhapuram Lake Behind SIPCOT Industrial Estate, Hosur Taluk.	18.9.2023	Recharge Water Body maintained by Hosur City Municipal Corporation	Pre	Clear	6.1	7.35	2	8	1405	12	85	265	6	143	98	<MDL	<MDL	<MDL	<MDL	11	17
		22.9.2023		During	Clear	6.2	6.92	2	14	1471	14	95	245	8	152	112	<MDL	<MDL	0.004	0.061	12	24
		26.9.2023		Post	Clear	6.0	7.32	4	16	1283	14	95	240	6	150	116	<MDL	<MDL	0.008	0.068	11	22
6	Karnur Lake, Mathigiri, Hosur Taluk, Krishnagiri District.	18.9.2023	Irrigation Tank	Pre	Slightly yellow	6.0	7.85	5	32	593	14	2	110	2	168	85	<MDL	<MDL	0.014	0.071	7.8	14
		22.9.2023		During	Slightly yellow	5.9	7.31	4	48	632	16	4	190	4	142	120	<MDL	<MDL	0.018	0.078	12	39
		26.9.2023		Post	Slightly yellow	5.9	7.51	4	24	581	16	4	165	4	142	92	<MDL	<MDL	0.017	0.082	12	21
7	Thempennai River, Bagalur, Hosur Taluk, Krishnagiri District.	18.9.2023	River / Irrigating farmers in part of Krishnagiri and Dharmapuri District	Pre	Clear	5.8	7.62	8	34	422	26	45	105	16	224	162	<MDL	<MDL	<MDL	0.097	17	33
		22.9.2023		During	Clear	5.8	7.17	10	40	487	28	85	110	18	232	148	<MDL	<MDL	0.048	0.082	21	47
		26.9.2023		Post	Clear	5.7	7.48	10	32	346	28	62	95	20	248	156	<MDL	<MDL	<MDL	0.162	14	34
	Petalman Lake	18.9.2023		Pre	Slightly yellow	6.1	7.25	2	16	652	13	50	245	6	132	76	0.106	<MDL	<MDL	0.068	12	21



**Analysis results (Physio-Chemical and Bacteriological Parameter) of different water bodies over Tamil Nadu State monitored during pre- and post-idol immersion activity during Ganesh Chaturthi - 2023**

District : Hosur, Krishnagiri District

S.No	Sampling Location	Date of sampling	Type of water body	Pre/ Post immersion sampling	General Parameters												Heavy Metals				Micro Biological	
					Color-visibility	DO (mg/L)	pH	BOD (mg/L)	COD (mg/L)	Conductivity (µmho/cm)	Turbidity (mg/L)	Total Dissolved Solids (mg/L)	Chlorides (mg/L)	Total Suspended Solids (mg/L)	Total Hardness (mg/L)	Total Alkalinity (mg/L)	Copper	Chromium Total	Lead	Zinc	Fecal Coliform	Total Coliform
8	Denkanikottai, Denkanikottai Taluk, Krishnagiri District.	22.9.2023	Irrigation Tank	During	Slightly yellow	6.2	6.85	3	32	707	16	62	265	8	142	110	0.108	<MDL	0.012	0.072	17	33
		26.9.2023		Post	Slightly yellow	6.1	7.24	3	24	651	14	60	260	8	128	92	0.064	<MDL	0.016	0.046	11	24
9	Bennangur Lake, Denkanikottai, Denkanikottai Taluk, Krishnagiri District.	18.9.2023	Recharging Tank	Pre	Slightly ash	5.7	7.12	2	16	1106	14	65	225	4	153	85	0.190	0.626	<MDL	<MDL	14	17
		22.9.2023		During	Slightly ash	5.2	6.92	4	24	1129	18	110	185	8	138	108	0.121	0.428	<MDL	<MDL	22	34
		26.9.2023		Post	Slightly ash	5.8	7.34	2	8	1013	12	82	195	4	142	112	0.082	0.491	0.021	<MDL	14	21
10	Thally Lake, Thally, Denkanikottai Taluk, Krishnagiri District.	18.9.2023	Irrigation Tank	Pre	Clear	5.8	7.21	2	8	2165	6	195	650	8	154	125	0.113	0.479	<MDL	0.212	17	24
		22.9.2023		During	Slightly ash	6.1	7.02	2	14	2171	7	220	670	16	132	110	0.98	0.092	<MDL	0.192	21	47
		26.9.2023		Post	Clear	5.9	7.53	2	8	1917	9	225	520	8	138	120	0.002	0.124	<MDL	<MDL	12	33
11	Chinnetty Lake, Kelamangalam, Denkanikottai Taluk, Krishnagiri District.	18.9.2023	Recharging Tank	Pre	Clear	5.9	7.52	2	8	1242	8	95	330	2	152	110	0.625	<MDL	<MDL	0.608	6.8	12
		22.9.2023		During	Clear	6.2	7.12	3	16	1307	12	110	280	6	140	120	0.489	<MDL	<MDL	0.565	17	34
		26.9.2023		Post	Clear	6.2	7.71	3	24	1146	10	100	295	2	138	115	0.499	<MDL	0.012	0.592	11	17
12	Durai Lake, Shoolagiri Village, Shoolagiri Taluk, Krishnagiri District.	18.9.2023	Irrigation Tank	Pre	Clear	5.9	7.52	2	8	812	12	25	245	2	140	68	0.625	<MDL	<MDL	0.608	11	14
		22.9.2023		During	Clear	6.2	7.12	3	16	869	14	68	265	4	162	95	0.489	<MDL	<MDL	0.565	14	47
		26.9.2023		Post	Clear	6.2	7.71	3	16	686	14	42	225	4	160	88	0.499	<MDL	0.012	0.592	20	39
13	Singarapettai Big Lake, Uthangarai, Uthangarai Taluk	18.9.2023	Check Dam	Pre	Clear	6	8.12	2	8	392	10	35	85	2	64	48	1.521	<MDL	<MDL	0.074	17	39
		22.9.2023		During	Clear	5.8	7.52	2	24	417	12	45	85	2	86	62	0.621	<MDL	0.008	0.081	21	47
		26.9.2023		Post	Clear	5.9	7.92	2	8	364	10	50	75	2	88	71	0.583	<MDL	<MDL	0.062	21	39
14	Pambaru Dam, Uthangarai, Uthangarai Taluk	18.9.2023	Dam water utilized for irrigation	Pre	Clear	5.8	7.76	2	16	1625	16	85	190	2	68	86	<MDL	<MDL	<MDL	0.217	9.3	17
		22.9.2023		During	Clear	5.9	6.92	2	24	1707	12	80	195	4	88	65	<MDL	<MDL	<MDL	0.182	12	27
		26.9.2023		Post	Clear	5.8	7.11	2	16	1530	14	75	180	2	95	75	<MDL	<MDL	<MDL	0.193	14	21
	Kallavi Thenpennai River, Kallavi.	18.9.2023	Tail end of Thenpennai River water	Pre	Clear	6.1	7.80	4	32	1531	8	70	75	4	150	72	0.018	0.421	<MDL	0.389	21	39
		22.9.2023		During	Clear	6.3	7.24	2	32	1544	10	65	75	2	130	85	<MDL	0.308	<MDL	0.401	20	47



Analysis results (Physio-Chemical and Bacteriological Parameter) of different water bodies over Tamil Nadu State monitored during pre- and post-idol immersion activity during Ganesh Chaturthi - 2023

District : Hosur, Krishnagiri District

S.No	Sampling Location	Date of sampling	Type of water body	Pre/ Post immersion sampling	General Parameters											Heavy Metals				Micro Biological		
					Color-visibility	DO (mg/L)	pH	BOD (mg/L)	COD (mg/L)	Conductivity (µmho/cm)	Turbidity (mg/L)	Total Dissolved Solids (mg/L)	Chlorides (mg/L)	Total Suspended Solids (mg/L)	Total Hardness (mg/L)	Total Alkalinity (mg/L)	Copper	Chromium Total	Lead	Zinc	Fecal Coliform	Total Coliform
15	Uthangarai Taluk	26.9.2023	used for irrigation.	Post	Clear	6.1	7.79	2	8	1362	6	70	70	4	95	86	<MDL	0.317	<MDL	0.352	22	17
16	Manjamedu Thenpennai River, Bargur, Baigur Taluk	18.9.2023	Tail end of Thenpennai River water used for irrigation.	Pre	Clear	6.2	8.12	4	24	1221	16	50	305	6	124	62	<MDL	<MDL	<MDL	0.162	17	39
		22.9.2023		During	Slightly ash	6.0	7.79	3	32	1373	17	85	285	4	162	95	<MDL	<MDL	0.012	0.085	22	94
		26.9.2023		Post	Clear	5.9	7.82	4	24	1174	12	62	290	6	1121	82	<MDL	<MDL	<MDL	0.102	21	47
17	KRP Dam, Krishnagiri Taluk	18.9.2023	Major water storage dam utilized for Agriculture.	Pre	Clear	6.0	7.92	5	24	1169	15	45	265	4	136	78	1.821	0.836	<MDL	<MDL	14	24
		22.9.2023		During	Slightly ash	6.3	7.45	4	24	1212	22	82	285	8	162	92	1.471	0.702	<MDL	0.0042	68	93
		26.9.2023		Post	Slightly ash	6.1	7.52	2	16	1193	20	64	250	4	142	84	1.584	0.771	<MDL	0.0051	11	26
18	Gummunu Thenpennai River, Krishnagiri Taluk, Krishnagiri District	18.9.2023	Tail end of Thenpennai River water used for irrigation.	Pre	Clear	6.1	8.29	2	16	816	14	35	330	2	135	65	0.648	0.027	<MDL	0.308	21	47
		22.9.2023		During	Clear	6.0	7.78	4	32	874	16	60	275	2	185	88	0.517	0.037	<MDL	0.312	21	94
		26.9.2023		Post	Clear	6.3	7.69	2	24	889	12	56	285	2	160	70	0.571	0.040	<MDL	0.292	17	40
19	Enekal Pudur Thenpennai River, Gurubarapalli, Krishnagiri Taluk, Krishnagiri District.	18.9.2023	Major check dam located in the Border of Andrapradesh utilized for irrigation	Pre	Clear	6.2	8.62	4	32	1238	10	45	260	2	112	72	0.847	<MDL	<MDL	0.042	14	20
		22.9.2023		During	Clear	6.2	7.95	5	32	1317	14	80	285	2	142	98	0.797	<MDL	0.012	0.059	17	39
		26.9.2023		Post	Clear	6.0	8.07	2	16	1203	12	75	245	4	138	78	0.777	<MDL	<MDL	0.067	11	20
20	ON Kothur Lake, Veppanapalli, Krishnagiri District.	18.9.2023	Irrigation Tank	Pre	Clear	5.7	7.95	2	16	1259	10	58	95	6	148	98	<MDL	0.385	<MDL	0.009	17	40
		22.9.2023		During	Slightly ash	5.2	7.07	3	24	1485	12	78	120	6	172	124	0.007	0.302	<MDL	0.008	26	94
		26.9.2023		Post	Slightly ash	5.6	7.45	2	16	1312	12	68	125	8	158	108	0.021	0.371	0.004	0.009	24	39

INFERENCE: There is no marked difference in the sampled loaction over the Hosur & Krishnagiri sight, with refence to Preimmersion and Post Immersion, that indicates pollution due to immersion of idol.

*[Signature]*  
30/10/23  
ES  
priyanka.k

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DCSO (ARW)

DD (Labs) J/C

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