



Report on
Water Quality across Tamil Nadu

Idol Immersion
2025

Tamil Nadu Pollution Control Board

Introduction

In India, during the widely celebrated Vinayagar Chathurthi festival, a tradition involves immersing Vinayagar idols that devotees have worshipped into water bodies such as lakes, ponds, rivers, estuaries, open coastal beaches, and wells. The immersion of these idols raises concerns regarding the environmental impact due to water pollution since the materials used, particularly Plaster of Paris, do not completely dissolve in water, resulting in environmental pollution. Additionally, the toxic paints employed for decorating the idols contain heavy metals like mercury, lead, cadmium, and iron, which leach into the water as the idols break down.

It increases the acidity levels, total dissolved solids (TDS), and heavy metal concentrations in water, thereby altering its quality, harming underwater ecosystems, and leading to bioaccumulation. The idols may also obstruct the natural flow of water, causing stagnation, and the decorative materials resurfaces and floats atop the water body, leading to eutrophication. It is therefore, it is important to celebrate the festival of idol immersion by prioritizing environmental protection and pollution prevention and control.

In compliance with the orders of the Hon'ble High Court, the Central Pollution Control Board (CPCB) has evolved guidelines for the immersion of idols and other puja materials reaching into water bodies during festivals. These guidelines aim to promote the environmentally responsible immersion of idols while safeguarding the water quality and respecting religious practices. The guidelines highlight the importance for restricting the use of single-use plastics in idol production, utilizing natural colours for decorating idols, restricting the size of idols, and creating temporary synthetic-lined ponds with sufficient capacity, among other measures.

In this context, it is directed that the State Pollution Control Boards, which possess statutory authority under the Water (Prevention of Pollution) Control Act, 1974 and the Environment (Protection) Act, 1986, issue directives to enforce the guidelines provided by the Central Pollution Control Board. Additionally, they are to carry out water quality assessments of the water bodies before immersion, during immersion, and after immersion according to the specified parameters.

Accordingly, in the State of Tamil Nadu, the Tamil Nadu Pollution Control Board collected water samples from various water bodies throughout the State to monitor water quality and assess the impact of idol immersion activities during Vinayagar Chaturthi-2025. Inorganic metals and other parameters were examined to determine the water quality. The findings (ROA) from the Advanced Environmental Labs (AELs) located in Chennai, Coimbatore, Cuddalore, Madurai, Salem, Trichy, Tirunelveli, and Vellore, as well as those from the District Environmental Labs (DELs) in Ambattur, Dindigul, Hosur, Manali, Maraimali Nagar, Nagapattinam, Oragadam, Perundurai, Tiruppur, and Thoothukudi were compiled, and the overall inferences and conclusion were drawn as follows.



Analytical Results of different water bodies over Tamil Nadu State Monitored During, Pre and Post Idol Immersion Vinagayar Chathurthi 2025										District: Chengalpattu				
S.No	Sampling Location	Type of water Body	Immersion Sampling (Pre/ During/ Post)	Date	DO (mg/L)	pH	BOD (mg/L)	Heavy Metals						
								Cadmium (mg/L)	Copper (mg/L)	Chromium Total (mg/L)	Manganese (mg/L)	Lead (mg/L)	Zinc (mg/L)	Iron(mg/L)
1	Kovalam	Sea Water	Pre	25.08.2025	5.7	8.21	3	<0.0028	<0.004	<0.6	<0.002	<0.012	0.34	<0.004
			During	31.08.2025	4.2	8.32	2	<0.0028	<0.004	<0.6	<0.002	<0.012	0.34	<0.004
			Post	04.09.2025	5.2	8.24	4	<0.0028	<0.004	<0.6	<0.002	<0.012	0.34	<0.004
2	Mahabalipuram	Sea Water	Pre	25.08.2025	5.6	8.17	2	<0.0028	<0.004	<0.6	<0.002	<0.012	0.4	<0.004
			During	31.08.2025	4.5	8.33	5	<0.0028	<0.004	<0.6	<0.002	<0.012	0.34	<0.004
			Post	04.09.2025	5.3	8.28	4	<0.0028	<0.004	<0.6	<0.002	<0.012	0.34	<0.004
3	Sadurangapattinam	Sea Water	Pre	25.08.2025	5.3	8.26	2	<0.0028	<0.004	<0.6	<0.002	<0.012	0.47	<0.004
			During	31.08.2025	4.5	8.3	4	<0.0028	<0.004	<0.6	<0.002	<0.012	0.34	<0.004
			Post	04.09.2025	5.1	8.33	3	<0.0028	<0.004	<0.6	<0.002	<0.012	0.34	<0.004
4	Kadalurkuppam	Sea Water	Pre	25.08.2025	5	8.27	2	<0.0028	<0.004	<0.6	<0.002	<0.012	0.43	<0.004
			During	31.08.2025	5.6	8.41	3	<0.0028	<0.004	<0.6	<0.002	<0.012	0.34	<0.004
			Post	04.09.2025	6.1	8.38	3	<0.0028	<0.004	<0.6	<0.002	<0.012	0.34	<0.004
5	Vadapattinam	Sea Water	Pre	25.08.2025	6	8.19	2	<0.0028	<0.004	<0.6	<0.002	<0.012	0.43	<0.004
			During	31.08.2025	6.1	8.39	4	<0.0028	<0.004	<0.6	<0.002	<0.012	0.34	<0.004
			Post	04.09.2025	6.4	8.23	3	<0.0028	<0.004	<0.6	<0.002	<0.012	0.34	<0.004
6	Paramankeni kuppam	Sea Water	Pre	25.08.2025	6.1	8.24	2	<0.0028	<0.004	<0.6	<0.002	<0.012	0.43	<0.004
			During	31.08.2025	5.7	8.27	4	<0.0028	<0.004	<0.6	<0.002	<0.012	0.34	<0.004
			Post	04.09.2025	6.2	8.21	3	<0.0028	<0.004	<0.6	<0.002	<0.012	0.34	<0.004
7	Thazhuthalikuppam	Sea Water	Pre	25.08.2025	5.3	8.23	2	<0.0028	<0.004	<0.6	<0.002	<0.012	0.31	<0.004
			During	31.08.2025	5.5	8.31	4	<0.0028	<0.004	<0.6	<0.002	<0.012	0.34	<0.004
			Post	04.09.2025	6	8.29	3	<0.0028	<0.004	<0.6	<0.002	<0.012	0.34	<0.004

Analytical Results of different water bodies over Tamil Nadu State Monitored During, Pre and Post Idol Immersion Vinagayar Chathurthi 2025										District: Chengalpattu				
S.No	Sampling Location	Type of water Body	Immersion Sampling (Pre/ During/ Post)	Date	DO (mg/L)	pH	BOD (mg/L)	Heavy Metals						
								Cadmium (mg/L)	Copper (mg/L)	Chromium Total (mg/L)	Manganese (mg/L)	Lead (mg/L)	Zinc (mg/L)	Iron(mg/L)
8	Alamparaikuppam	Sea Water	Pre	25.08.2025	6.5	8.25	3	<0.0028	<0.004	<0.6	<0.002	<0.012	0.46	<0.004
			During	31.08.2025	5.9	8.4	5	<0.0028	<0.004	<0.6	<0.002	<0.012	0.34	<0.004
			Post	04.09.2025	6.7	8.35	3	<0.0028	<0.004	<0.6	<0.002	<0.012	0.34	<0.004
9	Madhuranthagam Lake	Lake	Pre	25.08.2025	6.9	8.72	3	<0.0028	<0.004	<0.6	<0.002	<0.012	1.2	<0.004
			During	31.08.2025	5.5	8.63	6	<0.0028	<0.004	<0.6	<0.002	<0.012	0.34	<0.004
			Post	04.09.2025	6.5	8.57	4	<0.0028	<0.004	<0.6	<0.002	<0.012	0.34	<0.004

The pH values are within the acceptable range for nearly all samples at all monitoring locations.

Dissolved oxygen levels in the water bodies exhibit a predictable pattern of decline during immersion and recovery afterward, reflecting its natural recovery

Marginal change in the concentration of heavy metals has been observed in Post immersion samples

Analytical Results of different water bodies over Tamil Nadu State Monitored During, Pre and Post Idol Immersion Vinagayar Chathurthi 2025										District: Chennai				
S.No	Sampling Location	Type of water Body	Immersion Sampling (Pre/ During/ Post)	Date	DO (mg/L)	pH	BOD (mg/L)	Heavy Metals						
								Cadmium (mg/L)	Copper (mg/L)	Chromium Total (mg/L)	Manganese (mg/L)	Lead (mg/L)	Zinc (mg/L)	Iron(mg/L)
1	Srinivasapuram at Pattinapakkam	Sea Coast	Pre	26.08.2025	6.2	7.83	1	<0.1	<0.2	<0.05	0.05	<0.5	0.18	1.69
			During	31.08.2025	3.2	7.64	7	<0.1	<0.2	<0.05	0.065	<0.5	0.25	1.73
			Post	04.09.2025	6.7	7.75	3	<0.1	<0.2	<0.05	0.058	<0.5	0.30	1.95
2	Palkalai Nagar at Neelankarai	Sea Coast	Pre	26.08.2025	7.2	8.09	1	<0.1	<0.2	<0.05	0.06	<0.5	0.63	1.98
			During	31.08.2025	6.4	7.97	3	<0.1	<0.2	<0.05	0.08	<0.5	0.91	2.1
			Post	04.09.2025	7.2	7.81	2	<0.1	<0.2	<0.05	0.12	<0.5	0.85	2.45

pH values at all monitoring stations has been observed to be within the acceptable range.

Dissolved oxygen levels in the water bodies exhibit a predictable pattern of decline during immersion and recovered afterward.

Heavy metals Cadmium, Chromium, Copper, Iron, Lead and Manganese were all well within acceptable range at all the locations.

Analytical Results of different water bodies over Tamil Nadu State Monitored During, Pre and Post Idol Immersion Vinagayar Chathurthi 2025										District: Coimbatore-North				
S.No	Sampling Location	Type of water Body	Immersion Sampling (Pre/ During/ Post)	Date	DO (mg/L)	pH	BOD (mg/L)	Heavy Metals						
								Cadmium (mg/L)	Copper (mg/L)	Chromium Total (mg/L)	Manganese (mg/L)	Lead (mg/L)	Zinc (mg/L)	Iron(mg/L)
1	Thekkampatty Bhathira kaliyamman Temple	River	Pre	25.08.2025	7.1	6.82	2	<0.0008	<0.0015	<0.05	<0.001	<0.015	<0.0015	0.15
			During	29.08.2025	6.5	7.47	2	<0.0008	<0.0015	<0.05	<0.001	<0.015	<0.0015	0.41
			Post	01.09.2025	6.8	6.7	2	<0.0008	<0.0015	<0.05	<0.001	<0.015	<0.0015	0.26
2	Mettupalayam Subramaniyar Kovil	River	Pre	25.08.2025	6.9	6.77	3	<0.0008	<0.0015	<0.05	<0.001	<0.015	<0.0015	0.12
			During	29.08.2025	5.6	7.49	3	<0.0008	<0.0015	<0.05	<0.001	<0.015	<0.0015	0.38
			Post	01.09.2025	6.2	7.14	3	<0.0008	<0.0015	<0.05	<0.001	<0.015	<0.0015	0.36
3	Elagampalayam	River	Pre	25.08.2025	6.8	6.83	4	<0.0008	<0.0015	<0.05	<0.001	<0.015	<0.0015	0.15
			During	09.08.2025	5.2	7.47	6	<0.0008	<0.0015	<0.05	<0.001	<0.015	<0.0015	0.52
			Post	01.09.2025	5.7	6.87	4	<0.0008	<0.0015	<0.05	<0.001	<0.015	<0.0015	0.28
4	Sirumugai - Pazhathottam	River	Pre	25.08.2025	6.7	6.7	2	<0.0008	<0.0015	<0.05	<0.001	<0.015	<0.0015	<0.05
			During	29.08.2025	5.6	7.45	3	<0.0008	<0.0015	<0.05	<0.001	<0.015	<0.0015	0.43
			Post	01.09.2025	6.2	7.4	3	<0.0008	<0.0015	<0.05	<0.001	<0.015	<0.0015	0.17
5	Vellakinar	Lake	Pre	26.08.2025	6.1	7.55	6	<0.0008	0.3968	<0.05	0.0462	<0.015	0.6837	<0.05
			During	29.08.2025	2.9	7.58	16	<0.0008	0.4126	<0.05	0.0673	<0.015	0.8321	0.34
			Post	01.09.2025	4.1	6.87	9	<0.0008	0.8902	<0.05	0.0572	<0.015	0.9632	0.21

The pH values are within the acceptable range for all the sampled locations.

Dissolved Oxygen (DO) values fall well within the acceptable range for nearly all monitored locations except at Vellakinar Lake indicating organic loading followed by a recovery phase, which illustrates their resilience.

Heavy metals Cadmium, Chromium, Copper, Iron, Lead, Manganese and Zinc are all well within acceptable range at all the locations.

Coimbatore – South



Analytical Results of different water bodies over Tamil Nadu State Monitored During, Pre and Post Idol Immersion Vinagayar Chathurthi 2025										District: Coimbatore-South				
S.No	Sampling Location	Type of water Body	Immersion Sampling (Pre/ During/ Post)	Date	DO (mg/L)	pH	BOD (mg/L)	Heavy Metals						
								Cadmium (mg/L)	Copper (mg/L)	Chromium Total (mg/L)	Manganese (mg/L)	Lead (mg/L)	Zinc (mg/L)	Iron(mg/L)
1	Nadumalai River	River	Pre	28.08.2025	7.6	8.1	2	<0.0008	<0.0015	<0.05	<0.001	<0.015	<0.0015	<0.05
			During	31.08.2025	6.6	7.65	3	<0.0008	0.0238	<0.05	0.0160	<0.015	0.0161	0.26
			Post	01.09.2025	6.9	7.41	3	<0.0008	<0.0015	<0.05	<0.001	<0.015	<0.0015	0.18
2	Ambarampalayam River	River	Pre	26.08.2025	7.4	8.11	2	<0.0008	0.0425	<0.05	0.0160	<0.015	0.0162	<0.05
			During	29.08.2025	6.4	8.23	3	<0.0008	0.0696	<0.05	0.0280	<0.015	0.0199	0.22
			Post	02.09.2025	6.6	8.12	2	<0.0008	0.0521	<0.05	0.019	<0.015	0.018	0.18
3	Anaimalai Upparu river	River	Pre	26.08.2025	7.2	7.83	3	<0.0008	0.0452	<0.05	0.0259	<0.015	0.1452	0.14
			During	29.08.2025	6.1	8.35	4	<0.0008	0.0845	<0.05	0.0420	<0.015	0.1832	0.23
			Post	02.09.2025	6.8	7.94	3	<0.0008	0.0617	<0.05	0.032	<0.015	0.0162	0.15
4	Mayiladuthurai River	River	Pre	26.08.2025	6.7	7.83	2	<0.0008	<0.0015	<0.05	<0.001	<0.015	<0.0015	<0.05
			During	29.08.2025	6.5	8.37	3	<0.0008	0.0236	<0.05	0.0120	<0.015	0.0121	0.19
			Post	02.09.2025	6.6	7.62	2	<0.0008	<0.0015	<0.05	<0.001	<0.015	<0.0015	0.12
5	PAP Canal Kedimedu	Surface Water	Pre	26.08.2025	7.5	7.85	2	<0.0008	<0.0015	<0.05	<0.001	<0.015	<0.0015	<0.05
			During	29.08.2025	6.3	8.16	3	<0.0008	<0.0015	<0.05	<0.001	<0.015	<0.0015	0.16
			Post	02.09.2025	6.7	8.08	2	<0.0008	<0.0015	<0.05	<0.001	<0.015	<0.0015	0.09
6	Muthannan Lake	Lake	Pre	28.08.2025	6.5	8.18	12	<0.0008	0.2160	<0.05	0.1612	<0.015	0.0792	0.11
			During	31.08.2025	5.8	7.99	12	<0.0008	0.2563	<0.05	0.1823	<0.015	0.0837	0.31
			Post	01.09.2025	6.0	7.62	12	<0.0008	0.2362	<0.05	0.1704	<0.015	0.0775	0.24
7	Nagarajapuram Lake	Lake	Pre	28.08.2025	5.6	6.95	6	<0.0008	0.1312	<0.05	0.0712	<0.015	0.1302	<0.05
			During	29.08.2025	5.1	7.37	6	<0.0008	0.1562	<0.05	0.0871	<0.015	0.1436	2.63
			Post	01.09.2025	5.5	7.25	5	<0.0008	0.1299	<0.05	0.0750	<0.015	0.1399	1.52
8	Sadivayal	Surface Water	Pre	28.08.2025	7.2	7.07	2	<0.0008	<0.0015	<0.05	<0.001	<0.015	<0.0015	0.08
			During	29.08.2025	6.5	7.44	4	<0.0008	0.0232	<0.05	0.0160	<0.015	0.0136	1.14
			Post	01.09.2025	6.8	7.35	2	<0.0008	<0.0015	<0.05	<0.001	<0.015	<0.0015	0.44

Analytical Results of different water bodies over Tamil Nadu State Monitored During, Pre and Post Idol Immersion Vinagayar Chathurthi 2025										District: Coimbatore-South				
S.No	Sampling Location	Type of water Body	Immersion Sampling (Pre/ During/ Post)	Date	DO (mg/L)	pH	BOD (mg/L)	Heavy Metals						
								Cadmium (mg/L)	Copper (mg/L)	Chromium Total (mg/L)	Manganese (mg/L)	Lead (mg/L)	Zinc (mg/L)	Iron(mg/L)
9	Thondamuthur (Chithirai chavadi)	Surface Water	Pre	28.08.2025	7.4	7.03	3	<0.0008	0.0620	<0.05	0.0142	<0.015	0.0312	0.12
			During	29.08.2025	6	7.39	3	<0.0008	0.0729	<0.05	0.0268	<0.015	0.0538	0.21
			Post	01.09.2025	6.5	7.33	4	<0.0008	<0.0015	<0.05	<0.001	<0.015	<0.0015	0.18
10	Kuniyamuthur Lake	Lake	Pre	28.08.2025	5.1	7.04	4	<0.0008	0.0312	<0.05	0.0314	<0.015	0.0612	<0.05
			During	29.08.2025	4.9	7.92	6	<0.0008	0.0604	<0.05	0.0562	<0.015	0.0812	0.81
			Post	1.09.2025	5.0	7.16	5	<0.0008	0.0542	<0.05	0.0463	<0.015	0.0732	0.68
11	Kuruchi Lake	Lake	Pre	28.08.2025	6.4	7.12	6	<0.0008	0.0412	<0.05	0.0374	<0.015	0.0416	<0.05
			During	29.08.2025	5.8	8.06	6	<0.0008	0.0892	<0.05	0.0462	<0.015	0.0988	0.34
			Post	1.09.2025	6.1	7.15	4	<0.0008	0.0653	<0.05	0.0412	<0.015	0.0725	0.26
12	Singanallur Lake	Lake	Pre	28.08.2025	7	7.34	6	<0.0008	0.2142	<0.05	0.0592	<0.015	0.3162	0.12
			During	29.08.2025	6.4	7.58	7	<0.0008	0	<0.05	0.0616	<0.015	0.4892	0.6
			Post	1.09.2025	6.6	7.3	6	<0.0008	0.3623	<0.05	0.0581	<0.015	0.3609	0.33
13	Walayar Dam	Dam water	Pre	28.08.2025	6.6	7.77	3	<0.0008	0.0412	<0.05	0.0159	<0.015	0.0616	0.15
			During	29.08.2025	5.8	8.02	6	<0.0008	0.0568	<0.05	0.0180	<0.015	0.0721	0.22
			Post	02.09.2025	6.2	8.22	4	<0.0008	0.0482	<0.05	0.016	<0.015	0.066	0.18
14	Muthukavundanur River	River	Pre	28.08.2025	7.1	7.76	6	<0.0008	0.2462	<0.05	0.0892	<0.015	0.3162	<0.05
			During	29.08.2025	6.2	8.09	8	<0.0008	0.2864	<0.05	0.0910	<0.015	0.3562	0.26
			Post	02.09.2025	6.5	7.62	6	<0.0008	0.261	<0.05	0.09	<0.015	0.2309	0.17
15	Noyyal River (Ravathur Privu)	River	Pre	28.08.2025	4.2	7.65	6	<0.0008	0.2142	<0.05	0.0714	<0.015	0.1692	0.08
			During	29.08.2025	4	7.6	8	<0.0008	0.2268	<0.05	0.0830	<0.015	0.1843	0.33
			Post	04.09.2025	4.2	7.61	6	<0.0008	0.2070	<0.05	0.0740	<0.015	0.1736	0.26

pH values at all monitoring stations has been observed to be within the permissible Limits.

Dissolved oxygen levels in the water bodies exhibit a predictable pattern of decline during immersion and recovered afterward.

Heavy metals Cadmium, Chromium, Copper, Iron, Lead, Manganese and Zinc are all well within acceptable limit at all the stations.

Analytical Results of different water bodies over Tamil Nadu State Monitored During, Pre and Post Idol Immersion Vinagayar Chathurthi 2025										District: Cuddalore				
S.No	Sampling Location	Type of water Body	Immersion Sampling (Pre/ During/ Post)	Date	DO (mg/L)	pH	BOD (mg/L)	Heavy Metals						
								Cadmium (mg/L)	Copper (mg/L)	Chromium Total (mg/L)	Manganese (mg/L)	Lead (mg/L)	Zinc (mg/L)	Iron(mg/L)
1	Vadavaru river at Veeranallur	River	Pre	26.08.2025	6	8.48	3.3	<0.0008	11.727	<0.05	<0.010	0.845	4.005	5.552
			During	31.08.2025	5.7	8.33	4	0.011	11.958	<0.05	0.018	0.988	4.612	5.612
			Post	03.09.2025	5.7	8.47	4.2	0.023	16.439	<0.05	0.051	2.136	6.196	9.439
2	Kollidam near Vallambadugai	River	Pre	26.08.2025	6.1	7.97	3.8	<0.0008	8.126	<0.05	0.012	0.68	2.845	4.082
			During	31.08.2025	4.8	8.51	11	0.016	8.563	<0.05	0.022	0.821	2.912	4.121
			Post	03.09.2025	4.1	8.29	14	0.029	10.683	<0.05	0.063	1.968	4.823	8.126
3	Vellar at C. Mutlur road bridge	River	Pre	26.08.2025	6.4	7.86	12	<0.0008	9.014	<0.05	0.256	0.915	2.987	4.913
			During	31.08.2025	5.3	7.78	19.6	0.012	9.578	<0.05	0.262	1.214	3.256	4.997
			Post	03.09.2025	4.6	7.86	26	0.032	15.329	<0.05	0.369	2.369	5.125	9.237
4	Bay of Bengal at Pudhupettai beach	Sea Coast	Pre	26.08.2025	6.6	7.94	2	0.537	6.844	<0.05	0.984	2.673	3.044	4.259
			During	31.08.2025	6.2	8.1	3.6	0.611	7.121	<0.05	0.995	2.893	3.125	4.452
			Post	03.09.2025	5.4	8.04	4.2	0.932	11.243	<0.05	1.365	3.178	5.086	8.998
5	River Uppanaru at Sothikuppam	River	Pre	26.08.2025	6.8	7.91	1.2	1.495	5.163	<0.05	<0.010	11.493	4.753	5.329
			During	31.08.2025	6.6	8.04	2.4	1.612	6.781	<0.05	0.021	12.864	4.987	6.044
			Post	03.09.2025	4.6	8.16	5.6	1.892	8.126	<0.05	0.065	18.981	7.325	11.156
6	Bay of Bengal at Devanampattinam beach (Cuddalore silver beach)	Sea Coast	Pre	26.08.2025	6.2	8.02	2.4	1.6	10.075	<0.05	0.786	8.702	5.333	6.863
			During	31.08.2025	5.9	8.11	6.8	1.754	10.884	<0.05	0.891	9.075	6.104	7.121
			Post	03.09.2025	4.3	8.1	7.2	2.019	13.463	<0.05	1.16	16.439	8.565	12.239

pH values at all monitoring stations has been observed to be within the permissible limits.

Most of the sampled sites show a decrease in dissolved oxygen during immersion, with levels staying lower even after the post - idol immersion

Heavy metals such as copper, Manganese, Lead, iron and Zinc concentration does not meet the criteria at most of the monitored locations (-pre & -post). Additionally, an increase in values of the heavy metals was observed at all the locations during immersion.

Analytical Results of different water bodies over Tamil Nadu State Monitored During, Pre and Post Idol Immersion Vinagayar Chathurthi 2025										District: Dharmapuri				
S.No	Sampling Location	Type of water Body	Immersion Sampling (Pre/ During/ Post)	Date	DO (mg/L)	pH	BOD (mg/L)	Heavy Metals						
								Cadmium (mg/L)	Copper (mg/L)	Chromium Total (mg/L)	Manganese (mg/L)	Lead (mg/L)	Zinc (mg/L)	Iron(mg/L)
1	Thenpennaiyaru	River	Pre	26.8.2025	6.70	8.45	3	NA	0.011	<MDL	NA	<MDL	0.142	1.209
			During	29.8.2025	4.10	8.12	8	NA	0.025	<MDL	NA	<MDL	0.189	1.112
			Post	02.09.2025	6.06	7.74	5	<0.01	<0.03	<0.05	<0.02	<0.05	0.195	0.979
2	K.Ichambadi Dam	River	Pre	26.8.2025	6.14	8.33	3	NA	0.012	<MDL	NA	<MDL	0.116	0.652
			During	29.8.2025	3.20	8.23	7	NA	0.014	<MDL	NA	<MDL	0.225	0.558
			Post	02.09.2025	4	7.85	5	<0.01	<0.03	<0.05	<0.02	<0.05	0.212	0.673
3	T. Ammapettai	River	Pre	26.8.2025	7.52	9.03	2	NA	0.038	<MDL	NA	<MDL	0.116	0.493
			During	29.8.2025	3.20	8.51	7	NA	0.033	<MDL	NA	<MDL	0.354	0.458
			Post	02.09.2025	5.8	8.52	6	<0.01	<0.03	<0.05	<0.02	<0.05	0.319	0.485
4	Varattaru Dam	River	Pre	26.8.2025	5.83	8.55	5	NA	0.012	<MDL	NA	<MDL	0.111	0.527
			During	29.8.2025	4.92	8.20	7	NA	0.014	<MDL	NA	<MDL	0.055	0.668
			Post	02.09.2025	3.8	8.32	6	<0.01	<0.03	<0.05	<0.02	<0.05	0.082	0.679
5	Vaniyar Dam	River	Pre	26.8.2025	6.43	8.38	2	NA	0.015	<MDL	NA	<MDL	0.109	0.417
			During	29.8.2025	3.68	7.88	7	NA	0.022	<MDL	NA	<MDL	0.012	0.885
			Post	02.09.2025	4.1	7.75	5	<0.01	<0.03	<0.05	<0.02	<0.05	0.044	0.539
6	Thoppaiyaru Dam	River	Pre	26.8.2025	6.78	8.70	6	NA	0.009	<MDL	NA	<MDL	0.135	0.492
			During	29.8.2025	3.88	8.40	8	NA	0.015	<MDL	NA	<MDL	0.358	0.545
			Post	02.09.2025	5.5	8.17	6	<0.01	<0.03	<0.05	<0.02	<0.05	0.288	0.525
7	Thumbalahalli Dam	River	Pre	26.8.2025	NIL	8.71	14	NA	0.015	<MDL	NA	<MDL	0.145	1.462
			During	29.8.2025	NIL	8.58	15	NA	0.022	<MDL	NA	<MDL	0.038	0.885
			Post	02.09.2025	NIL	8.03	12	<0.01	<0.03	<0.05	<0.02	<0.05	0.043	0.92
8	Kolasanahalli Lake	River	Pre	26.8.2025	5.84	7.98	2	NA	0.013	<MDL	NA	<MDL	0.133	0.837
			During	29.8.2025	5.61	7.88	3	NA	0.022	<MDL	NA	<MDL	0.038	0.885
			Post	02.09.2025	4.7	7.67	4.2	<0.01	<0.03	<0.05	<0.02	<0.05	0.068	0.89

Analytical Results of different water bodies over Tamil Nadu State Monitored During, Pre and Post Idol Immersion Vinagayar Chathurthi 2025										District: Dharmapuri				
S.No	Sampling Location	Type of water Body	Immersion Sampling (Pre/ During/ Post)	Date	DO (mg/L)	pH	BOD (mg/L)	Heavy Metals						
								Cadmium (mg/L)	Copper (mg/L)	Chromium Total (mg/L)	Manganese (mg/L)	Lead (mg/L)	Zinc (mg/L)	Iron(mg/L)
9	Chinnar Dam	River	Pre	26.8.2025	6.16	7.78	2	NA	0.158	<MDL	NA	<MDL	0.107	0.473
			During	29.8.2025	6.54	8.36	3	NA	0.098	<MDL	NA	<MDL	0.265	0.548
			Post	02.09.2025	6.3	8.16	3.9	<0.01	0.073	<0.05	<0.02	<0.05	0.189	0.525
10	Kesarkuli Dam	River	Pre	26.8.2025	6.28	8.60	16	NA	0.013	<MDL	NA	<MDL	0.133	1.124
			During	29.8.2025	NIL	7.03	18	NA	0.018	<MDL	NA	<MDL	0.268	0.988
			Post	02.09.2025	1	8	12	<0.01	<0.03	<0.05	<0.02	<0.05	0.177	0.995
11	cauvery (Hogenakkal)	River	Pre	26.8.2025	7.05	8.03	2	NA	0.012	<MDL	NA	<MDL	0.091	0.788
			During	29.8.2025	6.50	8.40	4	NA	0.033	<MDL	NA	<MDL	0.289	0.644
			Post	02.09.2025	4.9	8.18	5.4	<0.01	<0.03	<0.05	<0.02	<0.05	0.212	0.752
12	Nagamarai Dam	River	Pre	26.8.2025	NIL	7.30	53	NA	<MDL	<MDL	NA	<MDL	0.187	1.302
			During	29.8.2025	NIL	9.46	58	NA	0.052	<MDL	NA	<MDL	0.958	1.254
			Post	02.09.2025	NIL	8.05	15	<0.01	0.043	<0.05	<0.02	<0.05	0.808	0.955
13	Nagavathi Dam	River	Pre	26.8.2025	6.19	8.78	6	NA	<MDL	<MDL	NA	<MDL	0.156	0.957
			During	29.8.2025	5.80	8.61	7	NA	0.013	<MDL	NA	<MDL	0.489	0.822
			Post	02.09.2025	4.2	8.51	6.4	<0.01	<0.03	<0.05	<0.02	<0.05	0.41	0.861

pH values at all monitoring stations has been observed to be within the permissible limits at all monitoring locations.

A decreasing trend in dissolved oxygen (DO), along with an increase in biochemical oxygen demand (BOD), was observed during the post-idol immersion period at all monitored locations, except Thumbalahalli Dam and Nagamarai Dam, where dissolved oxygen levels were recorded as NIL.

Majority of heavy metal concentrations were found to be below the detection limit with the exception of a marginal increase in Iron concentrations.

Analytical Results of different water bodies over Tamil Nadu State Monitored During, Pre and Post Idol Immersion Vinagayar Chathurthi 2025										District: Dindigul				
S.No	Sampling Location	Type of water Body	Immersion Sampling (Pre/ During/ Post)	Date	DO (mg/L)	pH	BOD (mg/L)	Heavy Metals						
								Cadmium (mg/L)	Copper (mg/L)	Chromium Total (mg/L)	Manganese (mg/L)	Lead (mg/L)	Zinc (mg/L)	Iron(mg/L)
1	Natham - Ammankulam	Surface Water	Pre	25.08.2025	4.4	7.63	5	0.016	0.095	<0.01	0.059	0.031	0.137	0.098
			During	01.09.2025	4.8	7.33	6	0.027	0.121	<0.01	0.108	0.052	0.196	0.145
			Post	08.09.2025	4.6	7.2	5	0.025	0.117	<0.01	0.084	0.039	0.185	0.133
2	Batlagundu - Pattiveeranpatti - Maruthanathi Dam	Surface Water	Pre	25.08.2025	5.3	7.53	3	0.009	0.054	<0.01	0.081	0.039	0.088	0.105
			During	29.08.2025	5.6	7.35	5	0.017	0.085	<0.01	0.099	0.056	0.148	0.166
			Post	01.09.2025	5	7.4	4	0.015	0.074	<0.01	0.096	0.043	0.133	0.14
3	Kannapatti Vaigai River	Surface Water	Pre	25.08.2025	6.4	7.79	2	0.007	0.036	<0.01	0.055	0.047	0.063	0.048
			During	29.08.2025	6.5	7.66	3	0.013	0.061	<0.01	0.078	0.058	0.093	0.097
			Post	01.09.2025	6.3	7.81	2	0.011	0.048	<0.01	0.068	0.051	0.089	0.077
4	Annaipatti Vaigai River - Nilakottai	Surface Water	Pre	25.08.2025	5.8	7.82	2	0.017	0.017	<0.01	0.032	0.04	0.077	0.039
			During	29.08.2025	6.1	7.63	3	0.003	0.032	<0.01	0.045	0.062	0.089	0.062
			Post	01.09.2025	6	7.77	3	0.026	0.021	<0.01	0.043	0.052	0.081	0.052
5	Thadicombu - Kudaganaru River	Surface Water	Pre	26.08.2025	2.1	7.9	6	0.183	0.063	<0.01	0.047	0.179	0.343	0.719
			During	01.09.2025	3.1	7.81	26	0.2	0.096	<0.01	0.078	0.322	0.418	0.815
			Post	08.09.2025	3.3	7.23	8	0.198	0.085	<0.01	0.059	0.219	0.375	0.81
6	Guzliyamparai-Banglowmedu Pond	Surface Water	Pre	26.08.2025	NIL	7.31	146	0.087	0.133	<0.01	0.033	0.079	0.136	0.158
			During	01.09.2025	NIL	6.89	213	0.115	0.152	<0.01	0.059	0.093	0.154	0.184
			Post	08.09.2025	NIL	6.89	186	0.105	0.147	<0.01	0.054	0.091	0.149	0.175
7	Eriodu - Nanthavanakulam	Surface Water	Pre	26.08.2025	4.8	7.85	5	0.017	0.332	<0.01	0.133	0.093	0.217	0.336
			During	29.08.2025	4.7	7.8	5	0.035	0.366	<0.01	0.157	0.121	0.228	0.196
			Post	08.09.2025	4.7	7.78	5	0.032	0.354	<0.01	0.154	0.117	0.225	0.184
8	Vadamadurai - Nariparai	Surface Water	Pre	26.08.2025	6.3	8.3	2	0.022	0.078	<0.01	0.063	0.101	0.137	0.185
			During	01.09.2025	6.2	7.96	4	0.035	0.096	<0.01	0.08	0.149	0.154	0.228
			Post	08.09.2025	5.8	8.1	2	0.032	0.091	<0.01	0.078	0.143	0.152	0.214

Analytical Results of different water bodies over Tamil Nadu State Monitored During, Pre and Post Idol Immersion Vinagayar Chathurthi 2025								District: Dindigul						
S.No	Sampling Location	Type of water Body	Immersion Sampling (Pre/ During/ Post)	Date	DO (mg/L)	pH	BOD (mg/L)	Heavy Metals						
								Cadmium (mg/L)	Copper (mg/L)	Chromium Total (mg/L)	Manganese (mg/L)	Lead (mg/L)	Zinc (mg/L)	Iron(mg/L)
9	Dindigul - Kottaikulam	Surface Water	Pre	26.08.2025	NIL	8.28	2	0.007	0.013	<0.01	0.008	0.033	0.058	0.083
			During	01.09.2025	NIL	6.47	66	0.039	0.071	<0.01	0.05	0.1	0.179	0.268
			Post	08.09.2025	NIL	6.43	52	0.036	0.066	<0.01	0.035	0.097	0.169	0.239
10	Kodaikanal - Dobikanal	Surface Water	Pre	26.08.2025	4.2	7.19	5	0.017	0.037	<0.01	0.011	0.043	0.032	0.07
			During	02.09.2025	4.6	7.18	7	0.023	0.044	<0.01	0.018	0.066	0.043	0.085
			Post	08.09.2025	4.4	6.77	6	0.021	0.041	<0.01	0.015	0.061	0.041	0.081
11	Palani - Shanmuganathi	Surface Water	Pre	26.08.2025	2.7	7.76	8	0.005	0.043	<0.01	0.024	0.033	0.041	0.089
			During	01.09.2025	3.1	7.55	8	0.014	0.072	<0.01	0.038	0.052	0.067	0.148
			Post	04.09.2025	3	7.68	11	0.011	0.061	<0.01	0.031	0.045	0.056	0.131
12	Oddanchatiram - Thalakuthu Falls	River	Pre	26.08.2025	5.3	7.96	2	0.008	0.017	<0.01	0.078	0.061	0.036	0.101
			During	29.08.2025	6.4	7.18	5	0.01	0.029	<0.01	0.143	0.105	0.071	0.134
			Post	01.09.2025	5.8	7.52	6	0.018	0.032	<0.01	0.156	0.118	0.092	0.144
13	Shanarpatty - Mathanakulam	Pond	Pre	26.08.2025	NIL	7.83	18	0.007	0.032	<0.01	0.086	0.084	0.084	0.134
			During	01.09.2025	NIL	7.49	24	0.009	0.039	<0.01	0.091	0.099	0.101	0.168
			Post	04.09.2025	NIL	7.7	27	0.021	0.015	<0.01	0.091	0.075	0.171	0.164
14	Reddiyarchatram - Mangarai Kulam	Surface Water	Pre	29.08.2025	5.3	7.52	5	0.01	0.042	<0.01	0.098	0.112	0.105	0.171
			During	29.08.2025	4.2	7.44	7	0.028	0.018	<0.01	0.113	0.089	0.179	0.182
			Post	08.09.2025	3.6	7.1	7	0.023	0.016	<0.01	0.108	0.076	0.174	0.175

pH values at all monitoring stations has been observed to be within the permissible limits with one exception.

A discernible pattern of decreasing DO levels post immersion has been noted, along with elevated BOD levels (pre-, during-, and post-) at the Thadicombu - Kudaganaru River, Guziliyamparai - Banglowmedu Pond, Dindigul – Kottaikulam, and Shanarpatty – Mathanakulam.

A definite trend of elevated heavy metal concentrations was observed during immersion followed by subsequent decrease post idol immersion periods.

Analytical Results of different water bodies over Tamil Nadu State Monitored During, Pre and Post Idol Immersion Vinagayar Chathurthi 2025										District: Madurai				
S.No	Sampling Location	Type of water Body	Immersion Sampling (Pre/ During/ Post)	Date	DO (mg/L)	pH	BOD (mg/L)	Heavy Metals						
								Cadmium (mg/L)	Copper (mg/L)	Chromium Total (mg/L)	Manganese (mg/L)	Lead (mg/L)	Zinc (mg/L)	Iron(mg/L)
1	Vadipatti Ayyanar Kovil Oorani (Ayyankottai)	Pond	Pre	21.08.2025	7.2	7.84	2.3	0.02	0.046	<0.02	0.012	0.01	0.012	0.052
			During	30.08.2025	6.4	7.25	3.2	0.028	0.051	<0.02	0.028	0.04	0.025	0.064
			Post	02.09.2025	6.5	8.63	3.8	0.08	0.048	<0.02	0.019	0.03	0.017	0.057
2	Kumaram Kanmoi Vadipatti	Pond	Pre	21.08.2025	7.1	7.32	2.4	0.009	0.04	<0.02	0.062	0.034	0.03	0.073
			During	30.08.2025	6.5	7.25	3	0.017	0.052	<0.02	0.073	0.098	0.046	0.081
			Post	02.09.2025	6.4	7.28	5.1	0.017	0.018	<0.02	0.036	0.024	0.042	0.012
3	Seventhikulam Kanmoi Thirupparan kundram	Pond	Pre	22.08.2025	6	8.28	4.2	0.014	0.01	<0.02	0.028	0.056	0.045	0.057
			During	31.08.2025	5.4	8.2	4.8	0.018	0.023	<0.02	0.037	0.065	0.053	0.069
			Post	02.09.2025	6.1	7.3	4.1	0.015	0.017	<0.02	0.032	0.062	0.049	0.061
4	Subramaniasamy Kovil Saravana Poigai Kulam Peraiyur	Artificial Pond	Pre	22.08.2025	6.1	7.6	4	0.014	0.01	<0.02	0.061	0.056	0.014	0.073
			During	01.09.2025	5.8	7.2	7	0.018	0.021	<0.02	0.088	0.074	0.056	0.08
			Post	02.09.2025	6	7.21	5.8	0.016	0.015	<0.02	0.066	0.068	0.024	0.076
5	Othakadai Thirumohur Kanmoi	Pond	Pre	23.08.2025	6.2	7.92	4	0.02	0.01	<0.02	0.038	0.056	0.045	0.064
			During	31.08.2025	5.9	6.81	4.8	0.031	0.029	<0.02	0.045	0.068	0.057	0.07
			Post	02.09.2025	6.1	6.84	4.5	0.019	0.016	<0.02	0.041	0.059	0.049	0.068
6	Melakkal Vaigai River	River	Pre	25.08.2025	6.6	8.24	3	0.009	0.008	0.05	0.012	0.029	0.034	0.05
			During	01.09.2025	6.1	7.91	4	0.028	0.017	<0.02	0.022	0.036	0.045	0.062
			Post	02.09.2025	6.5	7.67	3.8	0.014	0.011	<0.02	0.019	0.032	0.039	0.057
7	Usilampatti Matharai Kanmoi Usliampatti	Pond	Pre	25.08.2025	6.5	7.42	4.5	0.01	0.012	0.06	0.009	0.019	0.031	<0.06
			During	01.09.2025	5.8	7.56	6	0.024	0.032	<0.02	0.045	0.062	0.058	0.072
			Post	02.09.2025	6.4	7.37	5.1	0.017	0.018	<0.02	0.036	0.024	0.042	0.012
8	Vaigai River Pechiamman Padithurai	River	Pre	25.08.2025	6.4	7.75	4.8	0.011	0.014	<0.02	0.01	0.019	0.029	0.068
			During	30.08.2025	5.9	9.01	5.2	0.025	0.028	<0.02	0.032	0.041	0.053	0.082
			Post	02.09.2025	6.3	7.17	5	0.02	0.019	<0.02	0.022	0.024	0.034	0.073

Analytical Results of different water bodies over Tamil Nadu State Monitored During, Pre and Post Idol Immersion Vinagayar Chathurthi 2025										District: Madurai				
S.No	Sampling Location	Type of water Body	Immersion Sampling (Pre/ During/ Post)	Date	DO (mg/L)	pH	BOD (mg/L)	Heavy Metals						
								Cadmium (mg/L)	Copper (mg/L)	Chromium Total (mg/L)	Manganese (mg/L)	Lead (mg/L)	Zinc (mg/L)	Iron(mg/L)
9	Elumalai Kanmoi Kaluku Kudai	Pond	Pre	26.08.2025	6.4	7.7	3.9	0.044	0.042	0.04	0.011	0.037	0.079	0.072
			During	01.09.2025	6	7.23	4.6	0.062	0.058	<0.02	0.026	0.048	0.067	0.085
			Post	02.09.2025	6.2	7.54	4	0.054	0.043	<0.02	0.014	0.041	0.062	0.074
10	Ayanpapakudi Kanmoi Avaniyapuram	Pond	Pre	26.08.2025	6.6	7.53	4.8	0.034	0.05	0.05	0.012	0.049	0.023	0.064
			During	31.08.2025	5.8	7.49	5	0.042	0.061	<0.02	0.02	0.065	0.044	0.08
			Post	02.09.2025	6.5	7.38	4.2	0.038	0.054	<0.02	0.018	0.045	0.027	0.073
11	Kottampatti Konarkulam Kanmoi	Pond	Pre	26.08.2025	6.7	7.47	4.5	0.009	0.09	<0.02	0.014	0.039	0.019	0.048
			During	31.08.2025	6	7.13	5	0.014	0.098	<0.02	0.027	0.046	0.028	0.063
			Post	02.09.2025	6.6	6.79	4.2	0.011	0.092	<0.02	0.021	0.042	0.021	0.052
12	Kottampatti Dhravupathiaman Kovil Teppekulam	Artificial Pond	Pre	26.08.2025	6.5	7.49	3.6	0.012	0.08	<0.02	0.015	0.045	0.044	0.052
			During	31.08.2025	5.9	7.28	4.2	0.019	0.09	<0.02	0.026	0.056	0.062	0.075
			Post	02.09.2025	6.4	7.24	6.8	0.014	0.082	<0.02	0.019	0.053	0.052	0.058
13	Mankatti Teppakulam	Artificial Pond	Pre	26.08.2025	6.4	7.34	5.1	0.011	0.03	<0.02	0.011	0.04	0.036	0.058
			During	31.08.2025	6	7.5	5.4	0.016	0.042	<0.02	0.028	0.053	0.048	0.066
			Post	02.09.2025	6.4	7.27	5	0.013	0.034	<0.02	0.017	0.044	0.042	0.61

pH values at all monitoring stations has been observed to be within the permissible limits.

Dissolved oxygen levels in the water bodies exhibit a predictable pattern of decline during immersion and recovery afterward, demonstrating its resilience.

No appreciable changes were detected in heavy metal concentrations, with an exception of a marginal increase of levels in lead.

Analytical Results of different water bodies over Tamil Nadu State Monitored During, Pre and Post Idol Immersion Vinagayar Chathurthi 2025								District: Nagapattinam						
S.No	Sampling Location	Type of water Body	Immersion Sampling (Pre/ During/ Post)	Date	DO (mg/L)	pH	BOD (mg/L)	Heavy Metals						
								Cadmium (mg/L)	Copper (mg/L)	Chromium Total (mg/L)	Manganese (mg/L)	Lead (mg/L)	Zinc (mg/L)	Iron(mg/L)
1	Cauvery River at Mayiladuthurai	River water	Pre	25.08.2025	6.0	7.77	2	<0.02	<0.05	<0.06	0.05	<0.1	<0.1	0.995
			During	29.08.2025	4.5	7.78	6	<0.02	0.09	0.01	0.1	0.14	0.17	0.459
			Post	03.09.2025	5.6	7.76	3	<0.02	0.5	<0.06	0.107	<0.1	<0.1	0.436
2	Uppanar River at Sirkali	River water	Pre	25.08.2025	6.6	7.62	4	<0.02	<0.05	<0.06	0.435	<0.1	0.11	0.898
			During	29.08.2025	4.9	7.51	6	<0.02	0.05	<0.06	0.201	<0.1	0.18	0.654
			Post	03.09.2025	5.6	7.59	4	<0.02	<0.05	<0.06	0.032	<0.1	0.15	0.559
3	Cauvery river mixing with sea at Poombuhar	Estuary	Pre	25.08.2025	6.4	7.95	4	<0.02	<0.05	<0.06	0.006	<0.1	0.12	2.702
			During	29.08.2025	5.4	7.6	5	0.149	0.38	<0.06	0.032	0.042	0.25	9.727
			Post	03.09.2025	6.4	7.5	5	0.016	0.1	<0.06	0.055	<0.1	0.06	5.62
4	Beach at Tharangambadi	Sea water	Pre	25.08.2025	7.0	7.99	4	0.416	<0.05	<0.06	0.578	<0.1	0.02	0.995
			During	29.08.2025	4.9	7.86	6	0.096	1.19	0.05	0.214	0.14	0.34	0.507
			Post	03.09.2025	6.6	7.8	4	0.496	0.9	<0.06	0.2	0.1	0.16	0.427
5	New Beach at Nagapattinam	Sea water	Pre	25.08.2025	6.0	7.95	2	0.0363	<0.05	<0.06	0.14	<0.1	0.05	8.751
			During	31.08.2025	5.6	7.78	4	0.336	0.11	0.06	0.191	0.14	0.11	1.58
			Post	03.09.2025	6	7.38	2	0.549	0.06	<0.06	0.162	<0.1	0.09	1.19
6	River vettar mouth at Nagapattinam	River water	Pre	25.08.2025	7.2	7.98	3	<0.02	<0.05	<0.06	0.03	<0.1	0.06	3.239
			During	31.08.2025	6.5	7.81	5	<0.02	0.065	0.15	0.1	0.12	0.27	1.483
			Post	03.09.2025	5.4	7.56	4	<0.02	<0.05	<0.06	0.364	0.06	0.15	0.556

pH values at all monitoring stations has been observed to be within the permissible limits.

A noticeable trend of decreasing dissolved oxygen levels, accompanied by an increase in BOD values, is evident during the periods of idol immersion.

A high level of iron concentration is noted in the majority of the sampled locations prior to immersion.

Analytical Results of different water bodies over Tamil Nadu State Monitored During, Pre and Post Idol Immersion Vinagayar Chathurthi 2025										District: Ooty				
S.No	Sampling Location	Type of water Body	Immersion Sampling (Pre/ During/ Post)	Date	DO (mg/L)	pH	BOD (mg/L)	Heavy Metals						
								Cadmium (mg/L)	Copper (mg/L)	Chromium Total (mg/L)	Manganese (mg/L)	Lead (mg/L)	Zinc (mg/L)	Iron(mg/L)
1	Kamaraja Sagar Dam	Dam Water	Pre	28.08.2025	6.8	7.61	3	<0.0008	0.0512	<0.05	0.0312	<0.015	0.0292	0.13
			During	30.08.2025	5.9	8.31	4	<0.0008	0.0461	<0.05	0.053	<0.015	0.0623	0.34
			Post	04. 09.2025	5.6	6.8	4	<0.0008	0.0566	<0.05	0.0418	<0.015	0.0307	0.16
2	Irumbu Palam near Gudalur	River Water	Pre	26.08.2025	7.2	7.54	2	<0.0008	<0.0015	<0.05	<0.001	<0.015	<0.0015	<0.05
			During	31.08.2025	6.1	7.71	3	<0.0008	0.0168	<0.05	0.018	<0.015	0.0271	0.35
			Post	04.09.2025	5.6	6.83	2	<0.0008	0.0123	<0.05	0.015	<0.015	0.0178	0.24
3	Ponnani River	River Water	Pre	26.08.2025	6.8	7.57	2	<0.0008	<0.0015	<0.05	<0.001	<0.015	<0.0015	<0.05
			During	31.08.2025	6.4	7.98	2	<0.0008	<0.0015	<0.05	<0.001	<0.015	<0.0015	0.23
			Post	04.09.2025	6.1	6.78	2	<0.0008	<0.0015	<0.05	<0.001	<0.015	<0.0015	0.18
4	Uyihatty Falls, kothagiri	River Water	Pre	26.08.2025	6.7	6.71	2	<0.0008	0.1412	<0.05	0.0312	<0.015	0.201	0.14
			During	30.08.2025	5.8	8.1	6	<0.0008	0.2621	<0.05	0.056	<0.015	0.2178	0.28
			Post	04.09.2025	5.4	6.65	3	<0.0008	0.1821	<0.05	0.047	<0.015	0.2081	0.18
5	Law Falls, Coonoor	River Water	Pre	26.08.2025	7	7.1	3	<0.0008	0.0212	<0.05	0.037	<0.015	0.0316	0.08
			During	31.08.2025	6.6	7.92	6	<0.0008	0.0568	<0.05	0.042	<0.015	0.0891	0.18
			Post	03.09.2025	5.5	6.92	4	<0.0008	0.037	<0.05	0.0391	<0.015	0.0516	0.13

pH values at all monitoring stations has been observed to be within the permissible limits

DO values recorded are satisfying which falls well above the prescribed value at all the locations.

All the heavy metals analysed fall well within acceptable limits at all the locations.



Analytical Results of different water bodies over Tamil Nadu State Monitored During, Pre and Post Idol Immersion Vinagayar Chathurthi 2025										District: Perundurai, Erode				
S.No	Sampling Location	Type of water Body	Immersion Sampling (Pre/ During/ Post)	Date	DO (mg/L)	pH	BOD (mg/L)	Heavy Metals						
								Cadmium (mg/L)	Copper (mg/L)	Chromium Total (mg/L)	Manganese (mg/L)	Lead (mg/L)	Zinc (mg/L)	Iron(mg/L)
1	Mevani,River Bhavani	Bhavani River	Pre	25.08.2025	7.1	7.34	<2	<0.0028	<0.0045	<0.05	<0.0016	<0.016	<0.0033	<0.0043
			During	27.08.2025	5.2	7.85	2.6	<0.0028	<0.0045	<0.05	<0.0016	<0.016	<0.0033	<0.0043
			Post	31.08.2025	6.6	7.51	2.5	<0.0028	<0.0045	<0.05	<0.0016	<0.016	<0.0033	<0.0043
2	Athani, Appakoodal, River Bhavani.	Bhavani River	Pre	25.08.2025	5.3	7.32	<2	<0.0028	<0.0045	<0.05	<0.0016	<0.016	<0.0033	<0.0043
			During	29.08.2025	6.8	7.77	2.2	<0.0028	<0.0045	<0.05	<0.0016	<0.016	<0.0033	<0.0043
			Post	02.09.2025	6.4	7.43	2.3	<0.0028	<0.0045	<0.05	<0.0016	<0.016	<0.0033	<0.0043
3	Kooduthurai, River Bhavani.	Bhavani River	Pre	25.08.2025	5.2	7.39	2.0	<0.0028	<0.0045	<0.05	<0.0016	<0.016	<0.0033	<0.0043
			During	30.08.2025	6.3	7.1	2.6	<0.0028	<0.0045	<0.05	<0.0016	<0.016	<0.0033	<0.0043
			Post	02.09.2025	5.2	6.16	2.8	<0.0028	<0.0045	<0.05	<0.0016	<0.016	<0.0033	<0.0043
4	Perunthalaiyur, Kavandapady, River Bhavani.	Bhavani River	Pre	25.08.2025	5.3	7.35	2.0	<0.0028	<0.0045	<0.05	<0.0016	<0.016	<0.0033	<0.0043
			During	30.08.2025	6.3	7.51	2.4	<0.0028	<0.0045	<0.05	<0.0016	<0.016	<0.0033	<0.0043
			Post	03.09.2025	6.7	7.36	2.5	<0.0028	<0.0045	<0.05	<0.0016	<0.016	<0.0033	<0.0043
5	Akkarai Kodiveri Dam, River Bhavani.	Bhavani River	Pre	25.08.2025	5.7	7.18	<2	<0.0028	<0.0045	<0.05	<0.0016	<0.016	<0.0033	<0.0043
			During	27.08.2025	5.1	7.25	2	<0.0028	<0.0045	<0.05	<0.0016	<0.016	<0.0033	<0.0043
			Post	31.08.2025	6.2	7.19	2.2	<0.0028	<0.0045	<0.05	<0.0016	<0.016	<0.0033	<0.0043
6	Nanjai Puliampatti, Sathy, River Bhavani.	Bhavani River	Pre	25.08.2025	5.6	7.33	<2	<0.0028	<0.0045	<0.05	<0.0016	<0.016	<0.0033	<0.0043
			During	27.08.2025	5.2	7.61	3.4	<0.0028	<0.0045	<0.05	<0.0016	<0.016	<0.0033	<0.0043
			Post	31.08.2025	6.2	7.46	3.4	<0.0028	<0.0045	<0.05	<0.0016	<0.016	<0.0033	<0.0043
7	Kodiveri, Gobi, River Bhavani.	Bhavani River	Pre	25.08.2025	5.5	7.14	<2	<0.0028	<0.0045	<0.05	<0.0016	<0.016	<0.0033	0.169
			During	28.08.2025	4.2	6.91	3.2	<0.0028	<0.0045	<0.05	<0.0016	<0.016	<0.0033	0.169
			Post	01.09.2025	6.6	7.02	3.1	<0.0028	<0.0045	<0.05	<0.0016	<0.016	<0.0033	0.274
8	Santhiya vanathurai, Gobi, River Bhavani.	Bhavani River	Pre	25.08.2025	5.9	7.05	<2	<0.0028	<0.0045	<0.05	<0.0016	<0.016	<0.0033	<0.0043
			During	30.08.2025	5.9	6.83	2.1	<0.0028	<0.0045	<0.05	<0.0016	<0.016	<0.0033	<0.0043
			Post	03.09.2025	6.5	7.1	2.3	<0.0028	<0.0045	<0.05	<0.0016	<0.016	<0.0033	<0.0043

Analytical Results of different water bodies over Tamil Nadu State Monitored During, Pre and Post Idol Immersion Vinagayar Chathurthi 2025										District: Perundurai, Erode				
S.No	Sampling Location	Type of water Body	Immersion Sampling (Pre/ During/ Post)	Date	DO (mg/L)	pH	BOD (mg/L)	Heavy Metals						
								Cadmium (mg/L)	Copper (mg/L)	Chromium Total (mg/L)	Manganese (mg/L)	Lead (mg/L)	Zinc (mg/L)	Iron(mg/L)
9	Arasur, Gobi, River Bhavani.	Bhavani River	Pre	25.08.2025	5.9	6.98	<2	<0.0028	<0.0045	<0.05	<0.0016	<0.016	<0.0033	<0.0043
			During	28.08.2025	4.9	6.24	3.1	<0.0028	<0.0045	<0.05	<0.0016	<0.016	<0.0033	<0.0043
			Post	01.09.2025	6.9	7.01	3	<0.0028	<0.0045	<0.05	<0.0016	<0.016	<0.0033	<0.0043
10	Kothamangalam, River Bhavani.	Bhavani River	Pre	25.08.2025	5.8	6.76	<2	<0.0028	<0.0045	<0.05	<0.0016	<0.016	<0.0033	<0.0043
			During	30.08.2025	6.2	6.53	2.2	<0.0028	<0.0045	<0.05	<0.0016	<0.016	<0.0033	<0.0043
			Post	01.09.2025	6.2	7.64	2.2	<0.0028	<0.0045	<0.05	<0.0016	<0.016	<0.0033	<0.0043
11	Varasathi Vinayagar Temple, River Bhavani.	Bhavani River	Pre	25.08.2025	5.3	6.65	<2	<0.0028	<0.0045	<0.05	<0.0016	<0.016	<0.0033	<0.0043
			During	30.08.2025	6.6	6.88	2.3	<0.0028	<0.0045	<0.05	<0.0016	<0.016	<0.0033	<0.0043
			Post	03.09.2025	6.9	6.7	2.2	<0.0028	<0.0045	<0.05	<0.0016	<0.016	<0.0033	<0.0043
12	Paduguduthurai, Bhavanisagar, River Bhavani.	Bhavani River	Pre	25.08.2025	5.3	6.68	<2	<0.0028	<0.0045	<0.05	<0.0016	<0.016	<0.0033	<0.0043
			During	30.08.2025	6.4	6.58	<2	<0.0028	<0.0045	<0.05	<0.0016	<0.016	<0.0033	<0.0043
			Post	03.09.2025	6.7	6.57	2.1	<0.0028	<0.0045	<0.05	<0.0016	<0.016	<0.0033	<0.0043
13	Near GHS School road junction, Thalamalai Road, Thalavady.		Pre	25.08.2025	5.6	6.93	<2	<0.0028	<0.0045	<0.05	<0.0016	<0.016	<0.0033	<0.0043
			During	28.08.2025	4.3	6.26	<2	<0.0028	<0.0045	<0.05	<0.0016	<0.016	<0.0033	<0.0043
			Post	01.09.2025	6.5	6.98	<2	<0.0028	<0.0045	<0.05	<0.0016	<0.016	<0.0033	<0.0043

pH values at all monitoring stations has been observed to be within the permissible limits.

Across all monitored locations, dissolved oxygen levels remained relatively stable, showing no significant variation.

Heavy metals Cadmium, Chromium, Copper, Iron, Manganese, Lead, Iron and Zinc are all well within acceptable limits for all monitored locations.

Analytical Results of different water bodies over Tamil Nadu State Monitored During, Pre and Post Idol Immersion Vinagayar Chathurthi 2025										District: Salem				
S.No	Sampling Location	Type of water Body	Immersion Sampling (Pre/ During/ Post)	Date	DO (mg/L)	pH	BOD (mg/L)	Heavy Metals						
								Cadmium (mg/L)	Copper (mg/L)	Chromium Total (mg/L)	Manganese (mg/L)	Lead (mg/L)	Zinc (mg/L)	Iron(mg/L)
1	Anaimaduvu Dam.	Dam	Pre	26.08.2025	6.4	7.69	2.1	<0.0028	<0.0045	<0.05	<0.0016	<0.016	<0.0033	<0.0043
			During	29.08.2025	6.1	7.89	3.9	<0.0028	<0.0045	<0.05	<0.0016	<0.016	<0.0033	<0.0043
			Post	04.09.2025	5.7	8.01	3.9	<0.0028	0.024	<0.05	<0.0016	<0.016	0.006	<0.05
2	Maniyarkundam Lake.	Lake	Pre	26.08.2025	5.7	7.92	<2	<0.0028	<0.0045	<0.05	<0.0016	<0.016	<0.0033	<0.0043
			During	29.08.2025	5.6	8.07	2.4	<0.0028	<0.0045	<0.05	<0.0016	<0.016	<0.0033	<0.0043
			Post	04.09.2025	3.2	8.43	6.6	<0.0028	0.015	<0.05	<0.0016	<0.016	0.004	<0.05
3	Ramanayakan palayam Check Dam.	Dam	Pre	26.08.2025	5.3	8.14	<2	<0.0028	<0.0045	<0.05	<0.0016	<0.016	<0.0033	<0.0043
			During	29.08.2025	6.5	7.74	2.8	<0.0028	<0.0045	<0.05	<0.0016	<0.016	<0.0033	<0.0043
			Post	04.09.2025	5.9	7.86	3.3	<0.0028	0.022	<0.05	<0.0016	<0.016	0.0055	<0.05
4	Ottamparai Pond.	Lake	Pre	26.08.2025	5.5	7.43	2.4	<0.0028	<0.0045	<0.05	<0.0016	<0.016	<0.0033	<0.0043
			During	29.08.2025	1.2	7.28	12.6	<0.0028	<0.0045	<0.05	<0.0016	<0.016	<0.0033	<0.0043
			Post	04.09.2025	3.8	7.56	5.2	<0.0028	0.008	<0.05	<0.0016	<0.016	<0.0033	<0.05
5	Muttal Lake.	Lake	Pre	26.08.2025	5.8	7.88	2.4	<0.0028	0.014	<0.05	<0.0016	<0.016	<0.0033	<0.0043
			During	29.08.2025	6.8	7.22	2.9	<0.0028	0.015	<0.05	<0.0016	<0.016	<0.0033	<0.0043
			Post	04.09.2025	5.7	8.04	4.2	<0.0028	0.004	<0.05	<0.0016	<0.016	<0.0033	<0.05
6	Jangama samudhram Lake.	Lake	Pre	26.08.2025	5.8	8.41	<2	<0.0028	<0.0045	<0.05	<0.0016	<0.016	<0.0033	<0.0043
			During	29.08.2025	5.7	8.18	3.9	<0.0028	<0.0045	<0.05	<0.0016	<0.016	<0.0033	<0.0043
			Post	04.09.2025	5.1	8.13	4.2	<0.0028	0.029	<0.05	<0.0016	<0.016	0.0044	<0.05
7	Sentharapatti Lake.	Lake	Pre	26.08.2025	5.3	8.74	<2	<0.0028	<0.0045	<0.05	<0.0016	<0.016	<0.0033	<0.0043
			During	29.08.2025	5.4	8.58	2.4	<0.0028	<0.0045	<0.05	<0.0016	<0.016	<0.0033	<0.0043
			Post	04.09.2025	4.9	8.43	4.2	<0.0028	0.03	<0.05	<0.0016	<0.016	<0.0033	<0.05
8	Yercaud Lake.	Lake	Pre	26.08.2025	5.7	8.43	<2	<0.0028	<0.0045	<0.05	<0.0016	<0.016	<0.0033	<0.0043
			During	29.08.2025	6	7.43	2.2	<0.0028	<0.0045	<0.05	<0.0016	<0.016	<0.0033	<0.0043
			Post	04.09.2025	6.2	8.47	3	<0.0028	0.032	<0.05	<0.0016	<0.016	<0.0033	<0.05

Analytical Results of different water bodies over Tamil Nadu State Monitored During, Pre and Post Idol Immersion Vinagayar Chathurthi 2025								District: Salem						
S.No	Sampling Location	Type of water Body	Immersion Sampling (Pre/ During/ Post)	Date	DO (mg/L)	pH	BOD (mg/L)	Heavy Metals						
								Cadmium (mg/L)	Copper (mg/L)	Chromium Total (mg/L)	Manganese (mg/L)	Lead (mg/L)	Zinc (mg/L)	Iron(mg/L)
9	Mookaneri Lake.	Lake	Pre	26.08.2025	5.8	8.68	2.4	<0.0028	<0.0045	<0.05	<0.0016	<0.016	<0.0033	<0.0043
			During	29.08.2025	4.3	8.29	3.6	<0.0028	<0.0045	<0.05	<0.0016	<0.016	<0.0033	<0.0043
			Post	04.09.2025	3.8	8.02	4.8	<0.0028	0.011	<0.05	<0.0016	<0.016	0.0058	<0.05
10	Kalvadankam.	Cauvery River	Pre	26.08.2025	6.4	7.43	2	<0.0028	<0.0045	<0.05	<0.0016	<0.016	<0.0033	<0.0043
			During	29.08.2025	6.2	6.86	3.1	<0.0028	<0.0045	<0.05	<0.0016	<0.016	<0.0033	<0.0043
			Post	04.09.2025	5.7	7.79	3.9	<0.0028	0.026	<0.05	<0.0016	<0.016	0.0033	<0.05
11	Poolampatti, Santhapettai.	Cauvery River	Pre	26.08.2025	5.9	7.25	<2	<0.0028	<0.0045	<0.05	<0.0016	<0.016	<0.0033	1.104
			During	29.08.2025	5.7	6.99	2.4	<0.0028	<0.0045	<0.05	<0.0016	<0.016	<0.0033	1.732
			Post	04.09.2025	3.7	7.47	4.2	<0.0028	0.029	<0.05	<0.0016	<0.016	<0.0033	1.682
12	Kuppanur.	Cauvery River	Pre	26.08.2025	5.9	7.33	<2	<0.0028	<0.0045	<0.05	<0.0016	<0.016	<0.0033	<0.0043
			During	29.08.2025	5.5	7.1	2.4	<0.0028	<0.0045	<0.05	<0.0016	<0.016	<0.0033	<0.0043
			Post	04.09.2025	4.6	7.43	3.9	<0.0028	0.023	<0.05	<0.0016	<0.016	<0.0033	<0.05
13	Koodakal.	Cauvery River	Pre	26.08.2025	5.5	7.35	<2	<0.0028	<0.0045	<0.05	<0.0016	<0.016	<0.0033	<0.0043
			During	29.08.2025	6.4	7.08	2.3	<0.0028	<0.0045	<0.05	<0.0016	<0.016	<0.0033	<0.0043
			Post	04.09.2025	4.1	7.28	3.2	<0.0028	0.016	<0.05	<0.0016	<0.016	0.0091	<0.05
14	Sendraya Perumal Kovil.	Cauvery River	Pre	26.08.2025	6	8.61	2.3	<0.0028	<0.0045	<0.05	<0.0016	<0.016	<0.0033	<0.0043
			During	29.08.2025	6.4	7.93	3.2	<0.0028	<0.0045	<0.05	<0.0016	<0.016	<0.0033	<0.0043
			Post	04.09.2025	5.8	8.65	4.4	<0.0028	0.029	<0.05	<0.0016	<0.016	0.0083	<0.05
15	Kaveri pallam.	Cauvery River	Pre	26.08.2025	5.2	7.57	<2	<0.0028	<0.0045	<0.05	<0.0016	<0.016	<0.0033	<0.0043
			During	29.08.2025	5.1	7.54	2.4	<0.0028	<0.0045	<0.05	<0.0016	<0.016	<0.0033	<0.0043
			Post	04.09.2025	4.8	7.95	4.2	<0.0028	0.013	<0.05	<0.0016	<0.016	0.0035	<0.05
16	Thippampati.	Cauvery River	Pre	26.08.2025	5.4	8.72	<2	<0.0028	<0.0045	<0.05	<0.0016	<0.016	<0.0033	<0.0043
			During	29.08.2025	5.7	7.85	2.7	<0.0028	<0.0045	<0.05	<0.0016	<0.016	<0.0033	<0.0043
			Post	04.09.2025	5	8.44	4.8	<0.0028	0.003	<0.05	<0.0016	<0.016	<0.0033	<0.05
17	Keeraikaranoor.	Cauvery River	Pre	26.08.2025	5.3	8.62	2.1	<0.0028	<0.0045	<0.05	<0.0016	<0.016	<0.0033	<0.0043
			During	29.08.2025	6.4	7.75	2.1	<0.0028	<0.0045	<0.05	<0.0016	<0.016	<0.0033	<0.0043
			Post	04.09.2025	6.1	8.85	2.7	<0.0028	0.024	<0.05	<0.0016	<0.016	0.004	<0.05

Analytical Results of different water bodies over Tamil Nadu State Monitored During, Pre and Post Idol Immersion Vinagayar Chathurthi 2025										District: Salem				
S.No	Sampling Location	Type of water Body	Immersion Sampling (Pre/ During/ Post)	Date	DO (mg/L)	pH	BOD (mg/L)	Heavy Metals						
								Cadmium (mg/L)	Copper (mg/L)	Chromium Total (mg/L)	Manganese (mg/L)	Lead (mg/L)	Zinc (mg/L)	Iron(mg/L)
18	Koonandiyur.	Cauvery River	Pre	26.08.2025	5.2	8.82	2.4	<0.0028	<0.0045	<0.05	<0.0016	<0.016	<0.0033	<0.0043
			During	29.08.2025	6.2	7.88	2.7	<0.0028	<0.0045	<0.05	<0.0016	<0.016	<0.0033	<0.0043
			Post	04.09.2025	4.1	8.69	3	<0.0028	0.021	<0.05	<0.0016	<0.016	0.008	<0.05
19	Danishpettai Lake.	Lake	Pre	26.08.2025	5.8	8.47	<2	<0.0028	<0.0045	<0.05	<0.0016	<0.016	<0.0033	<0.0043
			During	29.08.2025	6	8.25	3.1	<0.0028	<0.0045	<0.05	<0.0016	<0.016	<0.0033	<0.0043
			Post	04.09.2025	6.3	8.38	3.3	<0.0028	0.017	<0.05	<0.0016	<0.016	<0.0033	<0.05
20	Cauvery River at Paramathi Velur.	Cauvery River	Pre	25.08.2025	5.1	8.38	2.1	<0.0028	<0.0045	<0.05	<0.0016	0.032	<0.0033	<0.0043
			During	29.08.2025	6.7	7.79	2.3	<0.0028	<0.0045	<0.05	<0.0016	0.036	<0.0033	<0.0043
			Post	04.09.2025	6.2	7.83	3.3	<0.0028	0.011	<0.05	<0.0016	0.036	0.007	<0.05
21	Cauvery River at S.Erayamangalam	Cauvery River	Pre	25.08.2025	5.4	7.85	2.5	<0.0028	<0.0045	<0.05	<0.0016	0.032	<0.0033	<0.0043
			During	29.08.2025	6.4	7.15	2.6	<0.0028	<0.0045	<0.05	<0.0016	0.041	<0.0033	<0.0043
			Post	04.09.2025	6.1	7.74	2.8	<0.0028	0.008	<0.05	<0.0016	0.038	0.005	<0.05
22	Cauvery River at Downstream of Pallipalayam bridge	Cauvery River	Pre	25.08.2025	5.3	7.32	2.3	<0.0028	<0.0045	<0.05	<0.0016	0.032	<0.0033	<0.0043
			During	29.08.2025	5.3	6.76	3.6	<0.0028	<0.0045	<0.05	<0.0016	0.038	<0.0033	<0.0043
			Post	04.09.2025	4.2	7.87	4.2	<0.0028	0.014	<0.05	<0.0016	0.035	0.0026	<0.05
23	Cauvery River at Komarapalayam Bridge.	Cauvery River	Pre	25.08.2025	5.5	7.62	2.3	<0.0028	<0.0045	<0.05	<0.0016	0.032	0.003	<0.0043
			During	29.08.2025	4.9	6.93	3	<0.0028	<0.0045	<0.05	<0.0016	0.033	0.004	<0.0043
			Post	04.09.2025	5.6	8.03	3.3	<0.0028	0.026	<0.05	<0.0016	0.034	0.004	<0.05

pH values at all monitoring stations has been observed to be within the permissible limits.

The DO and BOD values demonstrate a consistent trend throughout the pre-, during, and post-idol immersion phases, signifying their influence as an increase in organic load.

Majority of heavy metal concentrations were found to be below the detection limit with the exception of a marginal increase in Copper and lead levels.

Analytical Results of different water bodies over Tamil Nadu State Monitored During, Pre and Post Idol Immersion Vinagayar Chathurthi 2025										District: Thiruvallur				
S.No	Sampling Location	Type of water Body	Immersion Sampling (Pre/ During/ Post)	Date	DO (mg/L)	pH	BOD (mg/L)	Heavy Metals						
								Cadmium (mg/L)	Copper (mg/L)	Chromium Total (mg/L)	Manganese (mg/L)	Lead (mg/L)	Zinc (mg/L)	Iron(mg/L)
1	Coovam Eri	River	Pre	25.08.2025	1.2	7.47	28	0.031	<0.033	<0.05	<0.02	<0.07	0.211	<0.05
			During	29.08.2025	0.98	6.96	36	0.084	0.038	<0.05	0.125	<0.07	0.648	0.542
			Post	03.09.2025	3.42	7.15	8	0.067	0.035	<0.05	0.098	<0.07	0.413	0.468
2	Kakkalur Lake	Lake	Pre	25.08.2025	3.56	8.45	8	<0.013	<0.033	<0.05	<0.02	<0.07	0.241	<0.05
			During	29.08.2025	1.5	8.11	12	0.058	0.091	<0.05	0.082	<0.07	0.314	0.671
			Post	03.09.2025	3.45	8.34	9	0.043	0.075	<0.05	0.059	<0.07	0.295	0.529
3	Uthukottai Tank	Pond	Pre	25.08.2025	6.6	8.39	2	<0.013	<0.033	<0.05	<0.02	<0.07	0.186	<0.05
			During	29.08.2025	5.1	8.24	4	0.039	0.061	<0.05	<0.02	<0.07	0.462	0.515
			Post	03.09.2025	5.9	8.31	4	0.042	0.047	<0.05	<0.02	<0.07	0.428	0.407
4	Chitteri	Lake	Pre	25.08.2025	6.7	8.46	3	<0.013	<0.033	<0.05	<0.02	<0.07	0.451	<0.05
			During	29.08.2025	5	8.1	5	0.061	<0.033	<0.05	<0.02	<0.07	0.691	0.315
			Post	03.09.2025	6.1	8.26	5	0.052	<0.033	<0.05	<0.02	<0.07	0.521	0.221
5	Kusasthalai River	River	Pre	25.08.2025	5.4	8.31	3	<0.013	<0.033	<0.05	<0.02	<0.07	0.202	<0.05
			During	29.08.2025	4.9	8.16	5	0.061	0.084	<0.05	<0.02	<0.07	0.484	0.191
			Post	03.09.2025	5.6	8.46	3	0.039	0.071	<0.05	<0.02	<0.07	0.391	0.127
6	Pandravedu Kulam	Pond	Pre	25.08.2025	5.3	8.83	6	<0.013	<0.033	<0.05	<0.02	<0.07	0.327	<0.05
			During	31.08.2025	4.9	8.58	4	0.081	0.049	<0.05	0.279	<0.07	0.396	0.217
			Post	03.09.2025	5.2	8.75	5	0.07	0.035	<0.05	0.252	<0.07	0.327	0.192
7	Karimbedu Kulam	Pond	Pre	25.08.2025	6.6	8.54	5	<0.013	<0.033	<0.05	<0.02	<0.07	0.277	<0.05
			During	31.08.2025	2.61	8.27	12	0.095	0.081	<0.05	<0.02	<0.07	0.408	0.252
			Post	03.09.2025	5.1	8.65	6	0.071	0.069	<0.05	<0.02	<0.07	0.358	0.239
8	Thamarai Kulam, Vilakanampoodi	Pond	Pre	25.08.2025	6.2	7.64	3	<0.013	<0.033	<0.05	<0.02	<0.07	0.124	0.055
			During	31.08.2025	1.91	7.52	18	0.059	0.079	<0.05	<0.02	<0.07	0.236	0.192
			Post	03.09.2025	5.5	7.86	5	0.037	0.068	<0.05	<0.02	<0.07	0.21	0.153

Analytical Results of different water bodies over Tamil Nadu State Monitored During, Pre and Post Idol Immersion Vinagayar Chathurthi 2025										District: Thiruvallur				
S.No	Sampling Location	Type of water Body	Immersion Sampling (Pre/ During/ Post)	Date	DO (mg/L)	pH	BOD (mg/L)	Heavy Metals						
								Cadmium (mg/L)	Copper (mg/L)	Chromium Total (mg/L)	Manganese (mg/L)	Lead (mg/L)	Zinc (mg/L)	Iron(mg/L)
9	Chellathur Lake, Veeramangalam	Lake	Pre	25.08.2025	5.4	8.66	5	<0.013	<0.033	<0.05	<0.02	<0.07	0.385	<0.05
			During	31.08.2025	3.2	8.32	8	0.048	0.063	<0.05	<0.02	<0.07	0.194	0.176
			Post	03.09.2025	5.4	8.41	4	0.021	0.061	<0.05	<0.02	<0.07	0.172	0.095
10	Nanthiyaru (Tiruthani to Arakkonam New bypass road)	River	Pre	25.08.2025	5.2	7.57	4	<0.013	<0.033	<0.05	<0.02	<0.07	0.112	0.082
			During	31.08.2025	4.5	7.81	6	0.065	0.049	<0.05	<0.02	<0.07	0.34	0.192
			Post	03.09.2025	5.4	8.12	6	0.058	0.041	<0.05	<0.02	<0.07	0.297	0.141
11	Light House Beach-UT		Pre	26.08.2025	7.2	7.85	3	<0.013	<0.033	<0.05	<0.02	<0.07	<0.01	<0.05
			During	30.08.2025	5.8	8.04	3	0.281	0.198	0.069	0.084	0.088	0.265	0.984
			Post	31.08.2025	5.5	8.03	4	0.056	0.134	0.055	0.045	<0.07	0.212	0.487
12	B'canal Kosasthlai river-UT		Pre	26.08.2025	6.5	6.98	5	<0.013	<0.033	<0.05	<0.02	<0.07	<0.01	<0.05
			During	30.08.2025	3.24	7.14	6	0.148	<0.033	0.234	0.089	0.685	0.095	0.586
			Post	31.08.2025	4.1	7.25	5.2	0.105	<0.033	0.463	0.05	0.575	0.052	0.323

pH values fall well within the standards for nearly all of the monitored locations.

Coovam Eri, Kakkalur Lake, Thamarai Kulam, and Kanagammachathriram Kulam exhibited a comparatively greater decline in dissolved oxygen levels during idol immersion, followed by partial recovery in the post-immersion phase, relative to other monitored locations.

A moderate increase in heavy metal concentrations was observed during and post idol immersion across several monitored locations.

Analytical Results of different water bodies over Tamil Nadu State Monitored During, Pre and Post Idol Immersion Vinagayar Chathurthi 2025										District: Thoothukudi				
S.No	Sampling Location	Type of water Body	Immersion Sampling (Pre/ During/ Post)	Date	DO (mg/L)	pH	BOD (mg/L)	Heavy Metals						
								Cadmium (mg/L)	Copper (mg/L)	Chromium Total (mg/L)	Manganese (mg/L)	Lead (mg/L)	Zinc (mg/L)	Iron(mg/L)
1	Thirespuram	Sea Coast	Pre	25.08.2025	5.6	7.84	2.8	<0.008	0.072	<0.01	0.051	0.022	0.126	0.42
			During	31.08.2025	5.5	7.78	2.9	0.158	0.099	0.016	0.064	0.042	0.18	0.681
			Post	02.09.2025	5.7	8.02	2.7	0.143	0.058	<0.01	0.061	0.036	0.069	0.596
2	Muthiyapuram	Sea Coast	Pre	25.08.2025	6.1	7.90	2.7	<0.008	0.068	<0.01	0.047	<0.015	0.158	0.34
			During	31.08.2025	6.0	7.99	3.0	0.147	0.092	<0.01	0.064	0.04	0.161	0.632
			Post	02.09.2025	6.2	8.14	2.8	0.14	0.052	<0.01	0.058	0.031	0.083	0.596
3	Tiruchendur	Sea Coast	Pre	25.08.2025	6.3	8.19	2.7	<0.008	0.076	<0.01	0.048	<0.015	0.144	0.28
			During	31.08.2025	6.2	8.19	2.8	0.143	0.092	<0.01	0.061	0.041	0.155	0.608
			Post	03.09.2025	6.3	8.26	2.6	0.136	0.049	<0.01	0.058	0.033	0.08	0.669
4	Kulasekara pattinam	Sea Coast	Pre	25.08.2025	6.5	8.06	2.6	<0.008	0.080	<0.01	0.052	<0.015	0.172	0.26
			During	31.08.2025	6.3	8.14	2.8	0.14	0.092	<0.01	0.061	0.042	0.18	0.584
			Post	03.09.2025	6.6	8.04	2.5	0.132	0.046	<0.01	0.058	0.03	0.08	0.693

The pH values recorded at all monitoring stations have been noted to remain well within the acceptable range.

Dissolved Oxygen (DO) values fall well within the acceptable range.

The majority of heavy metal concentrations were found to be below the detection limit with the exception of a marginal increase in Cadmium and Copper levels.

Analytical Results of different water bodies over Tamil Nadu State Monitored During, Pre and Post Idol Immersion Vinagayar Chathurthi 2025										District: Tirunelveli				
S.No	Sampling Location	Type of water Body	Immersion Sampling (Pre/ During/ Post)	Date	DO (mg/L)	pH	BOD (mg/L)	Heavy Metals						
								Cadmium (mg/L)	Copper (mg/L)	Chromium Total (mg/L)	Manganese (mg/L)	Lead (mg/L)	Zinc (mg/L)	Iron(mg/L)
1	Uvari sea	Sea Coast	Pre	20.08.25	5.8	7.89	4	0.054	0.052	<0.01	0.089	<0.015	0.136	0.74
			During	01.09.25	0.8	7.43	12	0.085	0.086	<0.01	0.112	<0.015	0.159	0.96
			Post	03.09.25	5.4	7.88	6	0.061	0.064	<0.01	0.094	<0.015	0.098	0.82
2	Thillivanam thoppu	Sea Coast	Pre	25.08.25	6.4	7.94	3	0.056	0.048	<0.01	0.135	<0.015	0.124	0.68
			During	01.09.25	1.4	7.61	10	0.078	0.087	<0.01	0.173	<0.015	0.179	0.89
			Post	03.09.25	6.1	7.71	6	0.069	0.053	<0.01	0.128	<0.05	0.141	0.76
3	Chettikulam	Sea Coast	Pre	25.08.25	6.4	8.01	4	0.089	0.088	<0.01	0.08	<0.015	0.073	0.74
			During	01.09.25	1.2	7.65	11	0.102	0.136	<0.01	0.108	<0.015	0.092	0.92
			Post	03.09.25	6.1	7.69	7	0.076	0.092	<0.01	0.092	<0.015	0.076	0.86
4	Karukuruchi Pond	Pond water	Pre	28.08.25	6.7	7.13	4	0.028	0.021	<0.01	0.009	<0.015	0.042	0.14
			During	01.09.25	1.8	6.94	9	0.031	0.023	<0.01	0.013	<0.015	0.054	0.27
			Post	04.09.25	5.8	8.36	6	0.042	0.038	<0.01	0.021	<0.015	0.076	0.018
5	Vagaikulam Pond	Pond water	Pre	28.08.25	6.4	8.24	5	0.022	0.019	<0.01	0.012	<0.015	0.036	0.19
			During	01.09.25	1.2	7.59	11	0.036	0.032	<0.01	0.023	<0.015	0.057	0.28
			Post	04.09.25	6.1	7.14	7	0.029	0.028	<0.01	0.017	<0.015	0.029	0.22
6	Peratchi Amman Temple	Tempor y Pond water	Pre	31.08.25	6.6	6	4	0.01	0.028	<0.01	0.008	<0.015	0.024	0.12
			During	01.09.25	NIL	7.93	13	0.024	0.045	<0.01	0.019	<0.015	0.043	0.24
			Post	01.09.25	6.3	8.22	6	0.016	0.034	<0.01	0.012	<0.015	0.035	0.19

pH values at all monitoring stations has been observed within the permissible limits.

A sharp decline in DO was observed during immersion across all locations, followed by partial recovery post immersion.

Overall concentration of heavy metals Copper and Iron concentrations were observed during and subsequent to idol immersion periods.

Analytical Results of different water bodies over Tamil Nadu State Monitored During, Pre and Post Idol Immersion Vinagayar Chathurthi 2025										District: Tiruppur				
S.No	Sampling Location	Type of water Body	Immersion Sampling (Pre/ During/ Post)	Date	DO (mg/L)	pH	BOD (mg/L)	Heavy Metals						
								Cadmium (mg/L)	Copper (mg/L)	Chromium Total (mg/L)	Manganese (mg/L)	Lead (mg/L)	Zinc (mg/L)	Iron(mg/L)
1	PAP Canal @ Gedimedu	Canal	Pre	26.08.2025	7.6	7.56	<2	<0.0008	0.033	<0.01	<0.001	<0.015	0.212	<0.05
			During	29.08.2025	6.2	6.6	3	<0.0008	0.052	<0.01	<0.001	<0.015	0.246	<0.05
			Post	01.09.2025	6.8	7.24	2	<0.0008	0.039	<0.01	<0.001	<0.015	0.232	<0.05
2	SV Puram Vaikkal	Vaikkal	Pre	26.08.2025	7.1	7.74	<2	<0.0008	0.044	<0.01	<0.001	<0.015	0.19	<0.05
			During	29.08.2025	5.8	7.06	3	<0.0008	0.068	<0.01	<0.001	<0.015	0.262	<0.05
			Post	01.09.2025	6.2	7.47	2	<0.0008	0.056	<0.01	<0.001	<0.015	0.243	<0.05
3	Amaravathi River @ Kaniyur	River	Pre	26.08.2025	6.9	7.92	2	<0.0008	0.038	<0.01	<0.001	<0.015	0.185	<0.05
			During	29.08.2025	5.5	7.15	3	<0.0008	0.052	<0.01	<0.001	<0.015	0.214	<0.05
			Post	01.09.2025	6.1	7.57	3	<0.0008	0.047	<0.01	<0.001	<0.015	0.2	<0.05
4	PAP canal @ Pongalur	Canal	Pre	26.08.2025	6.2	8.96	<2	<0.0008	0.028	<0.01	<0.001	<0.015	0.275	<0.05
			During	29.08.2025	4.9	7.38	4	<0.0008	0.042	<0.01	<0.001	<0.015	0.313	<0.05
			Post	01.09.2025	5.3	7.53	2	<0.0008	0.04	<0.01	<0.001	<0.015	0.31	<0.05
5	Samalapuram Lake	Lake	Pre	26.08.2025	6.4	9.29	3	<0.0008	0.035	<0.01	<0.001	<0.015	0.479	<0.05
			During	29.08.2025	4.8	7.78	12	<0.0008	0.044	<0.01	<0.001	<0.015	0.625	<0.05
			Post	01.09.2025	4.9	9.18	4	<0.0008	0.044	<0.01	<0.001	<0.015	0.609	<0.05
6	PAP canal @ Andipalayam	Canal	Pre	27.08.2025	7.4	7.52	<2	<0.0008	0.021	<0.01	<0.001	<0.015	0.305	<0.05
			During	31.08.2025	5.2	7.1	3	<0.0008	0.032	<0.01	<0.001	<0.015	0.346	<0.05
			Post	02.09.2025	6.5	8.16	2	<0.0008	0.03	<0.01	<0.001	<0.015	0.309	<0.05

The pH values are within the acceptable range for nearly all samples at all monitoring locations.

Dissolved oxygen levels in the water bodies exhibit a predictable pattern of decline during immersion and recovery afterward, reflecting its natural recovery

Moderate rise in heavy metal concentrations such as copper and zinc was observed at all the monitored locations during immersion.

Analytical Results of different water bodies over Tamil Nadu State Monitored During, Pre and Post Idol Immersion Vinagayar Chathurthi 2025										District: Trichy				
S.No	Sampling Location	Type of water Body	Immersion Sampling (Pre/ During/ Post)	Date	DO (mg/L)	pH	BOD (mg/L)	Heavy Metals						
								Cadmium (mg/L)	Copper (mg/L)	Chromium Total (mg/L)	Manganese (mg/L)	Lead (mg/L)	Zinc (mg/L)	Iron(mg/L)
1	Thudaiyur-Kollidam River	River	Pre	26.8.2025	6.4	7.81	2.5	0.028	0.052	<0.05	0.026	<0.015	0.068	0.096
			During	29.08.2025	5.2	7.89	3	0.04	0.069	<0.05	0.03	<0.015	0.076	0.131
			Post	04.09.2025	6.2	7.75	2.8	0.026	0.055	<0.05	0.021	<0.015	0.069	0.082
2	Vathalai cauvery River	River	Pre	26.8.2025	6.6	7.35	2.4	0.051	0.085	<0.05	0.032	<0.015	0.046	0.078
			During	29.08.2025	5.5	7.84	2.9	0.055	0.097	<0.05	0.038	<0.015	0.066	0.085
			Post	04.09.2025	6.3	7.56	2.5	0.052	0.082	<0.05	0.021	<0.015	0.051	0.076
3	Musiri Parisalthurai-Cauvery River	River	Pre	26.8.2025	6.5	7.92	2.7	0.056	0.09	<0.05	<0.010	<0.015	0.118	0.052
			During	29.08.2025	5.7	7.98	4.8	0.069	0.128	<0.05	0.022	0.036	0.152	0.162
			Post	04.09.2025	6.3	7.88	2.9	0.06	0.098	<0.05	<0.010	<0.015	0.121	0.065
4	Thiruengomalai-Cauvery River	River	Pre	26.8.2025	6.8	7.89	2.4	0.062	0.038	<0.05	<0.010	0.052	0.064	0.086
			During	29.08.2025	5.9	8.26	3.2	0.088	0.056	<0.05	<0.010	0.069	0.085	0.486
			Post	04.09.2025	6.5	7.93	2.6	0.056	0.045	<0.05	<0.010	0.058	0.07	0.095
5	Thottiam- Cauvery River	River	Pre	26.8.2025	6.2	7.92	2.6	0.02	0.072	<0.05	<0.010	0.026	0.049	0.086
			During	29.08.2025	5.1	8.2	3.9	0.035	0.09	<0.05	<0.010	0.049	0.071	0.148
			Post	04.09.2025	5.9	7.98	3	0.022	0.076	<0.05	<0.010	0.031	0.052	0.078
6	Kattuputhur Cauvery River	River	Pre	26.8.2025	6.8	7.59	2.7	0.031	0.122	<0.05	<0.010	<0.015	0.075	0.108
			During	29.08.2025	5.8	7.83	3.6	0.04	0.146	<0.05	<0.010	<0.015	0.097	0.169
			Post	04.09.2025	6.5	7.65	3	0.026	0.089	<0.05	<0.010	<0.015	0.07	0.092
7	Uppiliyapuram-Puliyansolai River	River	Pre	26.8.2025	6.9	7.24	2.9	0.032	0.058	<0.05	<0.010	<0.015	0.088	0.128
			During	29.08.2025	6	8.04	4	0.055	0.062	<0.05	<0.010	<0.015	0.102	0.189
			Post	04.09.2025	6.4	7.39	3.2	0.035	0.055	<0.05	<0.010	<0.015	0.091	0.106
8	Manachanallur - Pulambadi Vaikkal	Vaikkal	Pre	26.8.2025	5.8	7.39	2.6	0.039	0.052	<0.05	<0.010	<0.015	0.08	0.326
			During	29.08.2025	4.9	7.87	3.4	0.046	0.065	<0.05	<0.010	<0.015	0.098	0.418
			Post	04.09.2025	5.1	7.55	2.9	0.035	0.055	<0.05	<0.010	<0.015	0.072	0.031

Analytical Results of different water bodies over Tamil Nadu State Monitored During, Pre and Post Idol Immersion Vinagayar Chathurthi 2025										District: Trichy				
S.No	Sampling Location	Type of water Body	Immersion Sampling (Pre/ During/ Post)	Date	DO (mg/L)	pH	BOD (mg/L)	Heavy Metals						
								Cadmium (mg/L)	Copper (mg/L)	Chromium Total (mg/L)	Manganese (mg/L)	Lead (mg/L)	Zinc (mg/L)	Iron(mg/L)
9	Nochiyam - Kollidam River	River	Pre	26.8.2025	6.4	7.5	2.6	0.025	0.046	<0.05	<0.010	<0.015	0.066	0.432
			During	29.08.2025	5.8	8.31	5.1	0.038	0.068	<0.05	<0.010	0.044	0.076	0.486
			Post	04.09.2025	6.1	7.65	2.9	0.029	0.038	<0.05	<0.010	<0.015	0.052	0.396
10	SarkarPalayam - Cauvery River	River	Pre	26.08.2025	6.2	7.71	2.9	0.041	0.056	<0.05	<0.010	0.034	0.098	0.129
			During	29.08.2025	5.1	8.05	3.4	0.054	0.075	<0.05	<0.010	0.058	0.129	0.159
			Post	02.09.2025	5.9	7.8	2.8	0.045	0.061	<0.05	<0.010	0.041	0.089	0.108
11	Thiruverumbur- Vengoor- Cauvery River	River	Pre	26.08.2025	6.8	7.55	3.1	0.046	0.026	<0.05	<0.010	0.019	0.098	0.134
			During	29.08.2025	5.8	7.95	3.6	0.061	0.04	<0.05	<0.010	0.042	0.131	0.166
			Post	02.09.2025	6.1	7.68	3	0.051	0.029	<0.05	<0.010	0.025	0.088	0.116
12	Lalgudi, Senkaraiyur at kollidam River	River	Pre	26.08.2025	6.1	7.6	2.6	0.054	0.068	<0.05	<0.010	<0.015	0.112	0.128
			During	29.08.2025	5.2	8.1	3	0.081	0.078	<0.05	<0.010	0.058	0.149	0.296
			Post	02.09.2025	5.6	7.72	2.9	0.036	0.061	<0.05	<0.010	<0.015	0.096	0.01
13	Kallakudi- Pullampadi Vaikkal	Vaikkal	Pre	26.08.2025	6.2	7.38	2.8	0.026	0.032	<0.05	<0.010	0.022	0.084	0.145
			During	29.08.2025	5.3	7.97	3	0.04	0.054	<0.05	<0.010	0.061	0.095	0.436
			Post	02.09.2025	5.9	7.62	2.9	0.031	0.041	<0.05	<0.010	0.028	0.088	0.172
14	K.K Nallur ,Pungai Sangenthi Pond	Pond	Pre	26.08.2025	6.2	7.31	2.6	0.036	0.163	<0.05	<0.010	0.032	0.11	0.142
			During	29.08.2025	5.5	8.02	3.2	0.045	0.178	<0.05	<0.010	0.051	0.154	0.286
			Post	02.09.2025	5.9	7.68	2.8	0.031	0.152	<0.05	<0.010	0.035	0.012	0.151
15	Lalgudi-Aiyyan Vaikkal	Vaikkal	Pre	26.08.2025	6.4	7.76	2.8	0.042	0.122	<0.05	<0.010	0.025	0.096	0.168
			During	29.08.2025	5.2	8.28	3	0.059	0.165	<0.05	<0.010	0.036	0.144	0.342
			Post	02.09.2025	6.1	7.89	2.8	0.039	0.098	<0.05	<0.010	0.029	0.112	0.196
16	Chinthamani- Cauvery River	River	Pre	26.08.2025	6.6	7.8	2.8	0.05	0.066	<0.05	<0.010	<0.015	0.082	0.126
			During	29.08.2025	5.7	7.97	3.3	0.066	0.091	<0.05	<0.010	0.035	0.122	0.356
			Post	02.09.2025	6.2	7.88	3	0.039	0.07	<0.05	<0.010	0.021	0.098	0.162
17	Iyalamman Padithurai- Cauvery River	River	Pre	28.08.2025	6.1	7.65	2.5	0.046	0.124	<0.05	<0.010	0.028	0.046	0.112
			During	29.08.2025	5.4	8.04	3	0.056	0.076	<0.05	<0.010	0.054	0.089	0.218
			Post	06.09.2025	5.8	7.71	2.7	0.032	0.094	<0.05	<0.010	0.025	0.061	0.142

Analytical Results of different water bodies over Tamil Nadu State Monitored During, Pre and Post Idol Immersion Vinagayar Chathurthi 2025										District: Trichy				
S.No	Sampling Location	Type of water Body	Immersion Sampling (Pre/ During/ Post)	Date	DO (mg/L)	pH	BOD (mg/L)	Heavy Metals						
								Cadmium (mg/L)	Copper (mg/L)	Chromium Total (mg/L)	Manganese (mg/L)	Lead (mg/L)	Zinc (mg/L)	Iron(mg/L)
18	Jeeyapuram - Cauvery River	River	Pre	28.08.2025	6.7	7.58	2.8	0.04	0.027	<0.05	<0.010	0.018	0.032	0.056
			During	29.08.2025	6.1	8.05	3.2	0.063	0.044	<0.05	<0.010	0.026	0.052	0.116
			Post	06.09.2025	6.4	7.63	3	0.038	0.035	<0.05	<0.010	<0.015	0.047	0.086
19	Pettaivaithalai - Cauvery River	River	Pre	28.08.2025	7	7.88	2.6	0.025	0.082	<0.05	<0.010	0.02	0.096	0.112
			During	29.08.2025	6.1	7.98	3	0.05	0.094	<0.05	<0.010	0.036	0.122	0.146
			Post	06.09.2025	6.5	7.95	2.8	0.032	0.079	<0.05	<0.010	<0.015	0.082	0.092
20	Somarasampettai Allithurai - Cauvery River	River	Pre	28.08.2025	5.6	7.61	2.6	0.044	0.039	<0.05	<0.010	<0.015	0.092	0.114
			During	29.08.2025	5.1	8.18	3.2	0.066	0.09	<0.05	<0.010	0.022	0.118	0.172
			Post	06.09.2025	5.5	7.86	2.8	0.036	0.056	<0.05	<0.010	<0.015	0.086	0.122
21	Ramji Nagar Kattalai Vaikkal	Vaikkal	Pre	28.08.2025	7	7.78	2.8	0.036	0.091	<0.05	<0.010	<0.015	0.069	0.107
			During	29.08.2025	5.9	8.03	3.5	0.049	0.115	<0.05	<0.010	0.032	0.085	0.212
			Post	06.09.2025	6.6	7.83	3	0.041	0.083	<0.05	<0.010	<0.015	0.078	0.128
22	Thuvaranguruchi - Boothanayaki Amman Temple Pond	Pond	Pre	28.08.2025	5.5	7.35	3.4	0.031	0.047	<0.05	<0.010	0.04	0.076	0.055
			During	29.08.2025	4.6	7.87	34	0.04	0.071	<0.05	<0.010	0.061	0.132	0.296
			Post	06.09.2025	5	7.59	3.1	0.036	0.058	<0.05	<0.010	0.032	0.084	0.119
23	Manaparai - Pothamettupatti Mamundi River	River	Pre	28.08.2025	5.9	8.01	3.1	0.045	0.117	<0.05	<0.010	0.026	0.106	0.136
			During	29.08.2025	5	8.14	4.1	0.052	0.128	<0.05	0.028	0.086	0.151	0.298
			Post	06.09.2025	5.3	7.89	3.4	0.039	0.11	<0.05	<0.010	0.046	0.104	0.142
24	Vaiyampatty - Ponnaniyar Dam	River	Pre	28.08.2025	7.1	7.69	3.2	0.046	0.126	<0.05	0.024	<0.015	0.162	1.112
			During	29.08.2025	6.4	8.05	8.8	0.66	0.159	<0.05	0.034	0.046	0.185	1.346
			Post	06.09.2025	6.8	7.74	4.1	0.049	0.14	<0.05	<0.010	<0.015	0.171	0.986

pH values at all monitoring stations has been observed to be within the permissible limits.

DO and BOD levels follow a noticeable pattern in pre-, during and post-idol immersion periods demonstrating its impact as organic load in the water body intensifies.

Heavy metals concentration also follows a predictable trend in pre-, during and post-idol immersion periods with a marginal increase as per the prescribed standards.

Analytical Results of different water bodies over Tamil Nadu State Monitored During, Pre and Post Idol Immersion Vinagayar Chathurthi 2025										District: Vellore				
S.No	Sampling Location	Type of water Body	Immersion Sampling (Pre/ During/ Post)	Date	DO (mg/L)	pH	BOD (mg/L)	Heavy Metals						
								Cadmium (mg/L)	Copper (mg/L)	Chromium Total (mg/L)	Manganese (mg/L)	Lead (mg/L)	Zinc (mg/L)	Iron(mg/L)
1	Esanodai Katpadi	Surface Water	Pre	26.08.2025	5.9	7.94	4	<0.005	0.799	<0.05	0.145	0.092	<0.015	0.212
			During	31.08.2025	3.2	7.9	8	<0.005	0.814	<0.05	0.164	0.096	0.034	0.245
			Post	04.09.2025	3	7.88	7	<0.005	0.781	<0.05	0.133	0.086	<0.015	0.207
2	Sadhuperi Vellore	Surface Water	Pre	26.08.2025	5.9	7.73	2	<0.005	0.7	<0.05	0.211	0.288	0.166	0.414
			During	31.08.2025	NIL	7.55	15	<0.005	0.745	<0.05	0.291	0.296	0.208	0.462
			Post	04.09.2025	NIL	7.21	13	<0.005	0.739	<0.05	0.275	0.278	0.172	0.4
3	Karugampathur Vellore	Surface Water	Pre	26.08.2025	4.5	8.94	6	<0.005	0.022	<0.05	0.179	0.22	0.272	0.41
			During	31.08.2025	4.2	8.35	7	<0.005	0.094	<0.05	0.208	0.238	0.281	0.476
			Post	04.09.2025	4	8.92	8	<0.005	0.034	<0.05	0.191	0.116	0.266	0.424
4	Thellur Lake Anaicut	Surface Water	Pre	26.08.2025	4.7	9.39	4	<0.005	0.771	<0.05	0.14	0.198	0.377	0.49
			During	31.08.2025	3.5	8.59	5	<0.005	0.783	<0.05	0.162	0.209	0.449	0.56
			Post	04.09.2025	2.7	7.94	8	<0.005	0.766	<0.05	0.145	0.167	0.368	0.48
5	Nellorepettai, Gudiyatham	Surface Water	Pre	26.08.2025	NIL	8.67	24	<0.005	0.814	<0.05	0.426	0.121	0.519	3.862
			During	31.08.2025	NIL	7.83	26	<0.005	0.836	<0.05	0.418	0.129	0.522	3.885
			Post	04.09.2025	NIL	7.14	29	<0.005	0.821	<0.05	0.404	0.113	0.491	3.872
6	Bathalapalli Dam,Pernambat	Surface Water	Pre	26.08.2025	3.9	8.55	4	<0.005	0.845	<0.05	0.467	0.103	0.649	6.217
			During	31.08.2025	1.9	7.77	9	<0.005	0.875	<0.05	0.479	0.118	0.661	6.264
			Post	04.09.2025	2	7.49	7	<0.005	0.865	<0.05	0.471	0.096	0.652	6.18

The pH values recorded at all monitoring stations have been noted to remain within the permissible limits.

A noted decrease in DO values is observed following idol immersion, which corresponds with an increase in BOD values.

Moderate rise in heavy metal concentrations (copper, iron, manganese), was observed at all the monitored locations during immersion.

Overall Inference

In accordance with the Central Pollution Control Board's 'Revised guidelines for Idol Immersion', Tamil Nadu Pollution Control Board (TNPCB) conducted water quality monitoring across various designated immersion sites in Tamil Nadu during 2025. Water samples were collected from 326 locations across 34 districts, covering a range of water bodies including rivers, lakes, ponds, tanks, coastal waters, and artificial ponds. The monitoring was carried out in three stages — Pre-immersion, During immersion, and Post-immersion — to evaluate the environmental impact of idol immersion activities during 2025. The details of water body of sampling are as follows:

Water Bodies	No. Sample points
Pond	60
Lake	37
River	93
Artificial Pond	9
Surface water	77
Coastal	39
Others (dam, canals)	11
Total	326

The following inferences are drawn from the ROA of water samples analysed across Tamil Nadu:

1. pH Levels The pH values across all sampling locations remained largely within acceptable limits for lakes, rivers, and coastal waters, indicating minimal impact on acidity/alkalinity due to immersion activities.

Pre-/During-/Post- Immersion	pH Range
Pre- Immersion	6.17 - 9.03
During- Immersion	4.05 - 9.46
Post- Immersion	6.16 – 9.2

2. In majority of samples, a general decrease in Dissolved Oxygen levels was observed likely due to increased organic loading during festivities leading to increase in Biological Oxygen Demand.

Pre-/During-/Post- Immersion	DO Range (mg/L)
Pre- Immersion	NIL – 7.6
During- Immersion	NIL – 6.5
Post- Immersion	NIL - 6.9

Pre-/During-/Post- Immersion	BOD Range (mg/L)
Pre- Immersion	<2 - 146
During- Immersion	<2 - 213
Post- Immersion	<2 - 186

3. Heavy metal concentration generally complied with CPCB standards, with an exception of lead, which marginally exceeds the prescribed limit in some locations.
4. Changes in water quality parameters seem to be slightly higher in lakes, Ponds, tanks and pits than river water due to limited dilution and stagnant conditions. In contrast, rivers showed relatively lower impact due to continuous flow and natural dilution.
5. Negligible changes are observed in Coastal water samples.



OUR TEAM:

Dr. Jayanthi M, I.F.S.,
Chairperson

Thiru.M.Saravanakumar, M.E.,
Member Secretary

Er.S.Rajendra Babu, M.Tech, M.B.A.,
Additional Chief Environmental Engineer

Thiru. Shankara Subramanian, M.Sc.,
Deputy Director (Air & Water)

Dr. Helen Mary B, M.Sc., Ph.D.,
Chief Scientific Officer

Dr. Priyanka Raja, Ph.D.,
Environmental Scientist

Special Thanks to

O/o District Environmental Engineers (DEEs),
Advanced Environmental Laboratories (AELs) &
District Environmental Laboratories (DELs),
Tamil Nadu Pollution Control Board



Tamil Nadu Pollution Control Board

76, Mount Salai, Guindy, Chennai - 600 032

044 - 22353134-139

tnpcb-chn@gov.in

www.tnpcb.gov.in