

TELANGANA STATE POLLUTION CONTROL BOARD, CENTRAL LAB, HYDERABAD

ANALYSIS RESULTS OF HUSSAINSAGAR LAKE - WATER - BEFORE, DURING AND AFTER IMMERSION OF GANESH IDOLS IN AUGUST & SEPTEMBER, 2022

Location: Opposite to NTR Park at Platform No.1

Parameters	Before	During immersion				After	CPCB Water Quality Criteria
	29.08.2022	02.09.2022	05.09.2022	07.09.2022	09.09.2022	12.09.2022	
Sample code	2208364	2209019	2209065	2209101	2209126	2209156	
Colour	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	
Turbidity	45	58	132	140	152	134	-
EC (µmhos/cm)	1300	1414	1347	1273	1219	1277	Max - 2250 µmhos/cm
pH	7.24	7.23	8.12	8.16	7.77	7.04	6.0-9.0
TSS (mg/L)	21	52	55	50	52	29	-
Total Solids	733	858	865	848	854	743	-
TDS (mg/L)	712	806	810	798	802	714	-
DO (mg/L)	3.9	3.1	3.5	3.4	3.2	3.9	Min - 4 mg/L
COD (mg/L)	37	81	90	122	164	53	-
BOD (mg/L)	10	26	26	28	30	14	Max - 3 mg/L
Total Alkalinity as CaCO ₃	328	324	340	304	340	320	-
Total Hardness as CaCO ₃	312	292	304	352	292	292	-
Chlorides as Cl ⁻	138	142	148	126	116	120	-
T. Coli (MPN/100ml)	280	350	540	280	350	210	50 - 5000 MPN/100 ml
F.Coli (MPN/100ml)	14	17	170	79	170	27	-
Heavy Metals							Inland surface water standards
Chromium (Mg/kg)	BDL	BDL	BDL	BDL	BDL	BDL	2.0
Lead (Mg/kg)	BDL	BDL	0.029	0.037	BDL	BDL	0.1
Zinc (Mg/kg)	BDL	BDL	BDL	BDL	BDL	BDL	5.0
Copper (Mg/kg)	BDL	BDL	BDL	BDL	BDL	BDL	3.0
Cadmium (Mg/kg)	BDL	BDL	BDL	BDL	BDL	BDL	2.0
Mercury (Mg/kg)	-	-	-	-	-	-	0.01
Antimony (Mg/kg)	-	-	-	-	-	-	-
Barium (Mg/kg)	BDL	BDL	BDL	BDL	BDL	BDL	-
Cobalt (Mg/kg)	BDL	BDL	BDL	BDL	BDL	BDL	-
Manganese (Mg/kg)	BDL	BDL	BDL	BDL	BDL	BDL	2.0
Strontium (Mg/kg)	-	-	-	-	-	-	-


 Joint Chief Environmental Scientist

TELANGANA STATE POLLUTION CONTROL BOARD, CENTRAL LAB, HYDERABAD								
ANALYSIS RESULTS OF HUSSAINSAGAR LAKE - WATER - BEFORE, DURING AND AFTER IMMERSION OF GANESH IDOLS IN AUGUST & SEPTEMBER., 2022								
Location: Opposite to NTR Park at Platform No.2								
Parameters	Before	During immersion				After	CPCB Water Quality Criteria	
	29.08.2022	02.09.2022	05.09.2022	07.09.2022	09.09.2022	12.09.2022		
Sample code	2208365	2209020	2209066	2209102	2209127	2209157		
Colour	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green		
Turbidity	43	44	92	117	239	92		-
EC (µmhos/cm)	1300	1390	1313	1304	1236	1256		Max - 2250 µmhos/cm
pH	7.25	7.42	8.25	8.14	7.62	7.10		6.0-9.0
TSS (mg/L)	26	44	50	86	86	12	-	
Total Solids	731	859	763	780	812	692		
TDS (mg/L)	705	777	713	694	768	680	-	
DO (mg/L)	4.0	3.9	3.7	3.0	2.8	3.8	Min - 4 mg/L	
COD (mg/L)	41	114	116	105	122	28	-	
BOD (mg/L)	12	24	24	20	27	8	Max - 3 mg/L	
Total Alkalinity as CaCO ₃	316	336	328	352	316	324	-	
Total Hardness as CaCO ₃	276	280	296	232	284	288	-	
Chlorides as Cl ⁻	148	142	142	134	130	112	-	
T. Coli (MPN/100ml)	210	920	920	1600	1300	280	50 - 5000 MPN/100 ml	
F. Coli (MPN/100ml)	32	47	140	110	130	32	-	
Heavy Metals							Inland surface water standards	
Chromium (Mg/kg)	BDL	BDL	BDL	BDL	BDL	BDL	2.0	
Lead (Mg/kg)	BDL	BDL	BDL	0.09	BDL	BDL	0.1	
Zinc (Mg/kg)	BDL	BDL	0.195	BDL	BDL	BDL	5.0	
Copper (Mg/kg)	BDL	BDL	BDL	BDL	BDL	BDL	3.0	
Cadmium (Mg/kg)	BDL	BDL	BDL	BDL	BDL	BDL	2.0	
Mercury (Mg/kg)	-	-	-	-	-	-	0.01	
Antimony (Mg/kg)	-	-	-	-	-	-	-	
Barium (Mg/kg)	BDL	BDL	BDL	BDL	BDL	BDL	-	
Cobalt (Mg/kg)	BDL	BDL	BDL	BDL	BDL	BDL	-	
Manganese (Mg/kg)	BDL	BDL	BDL	BDL	BDL	BDL	2.0	
Strontium (Mg/kg)	-	-	-	-	-	-	-	



 Joint Chief Environmental Scientist

TELANGANA STATE POLLUTION CONTROL BOARD, CENTRAL LAB, HYDERABAD

ANALYSIS RESULTS OF HUSSAINSAGAR LAKE - WATER - BEFORE, DURING AND AFTER IMMERSION OF GANESH IDOLS IN AUGUST & SEPTEMBER., 2022

Location: Near Lumbini Park

Parameters	Before	During immersion				After	CPCB Water Quality Criteria
	29.08.2022	02.09.2022	05.09.2022	07.09.2022	09.09.2022	12.09.2022	
Sample code	2208366	2209021	2209067	2209103	2209128	2209158	
Colour	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	
Turbidity	68	115	356	231	350	121	-
EC (µmhos/cm)	1280	1401	1312	1336	1340	1286	Max - 2250 µmhos/cm
pH	7.23	7.47	7.88	8.12	7.5	7.01	6.0-9.0
TSS (mg/L)	23	84	90	65	102	44	-
Total Solids	721	889	921	848	946	768	
TDS (mg/L)	698	805	831	783	844	724	-
DO (mg/L)	3.9	3.4	2.0	2.9	3.0	3.5	Min - 4 mg/L
COD (mg/L)	78	122	110	165	284	61	-
BOD (mg/L)	16	26	20	31	55	13	Max - 3 mg/L
Total Alkalinity as CaCO ₃	314	344	312	336	336	340	-
Total Hardness as CaCO ₃	284	284	316	288	328	304	-
Chlorides as Cl ⁻	113	136	142	136	128	116	-
T. Coli (MPN/100ml)	130	540	350	540	1600	210	50 - 5000 MPN/100 ml
F.Coli (MPN/100ml)	22	40	110	130	170	32	-
Heavy Metals							Inland surface water standards
Chromium (Mg/kg)	BDL	BDL	BDL	BDL	BDL	BDL	2.0
Lead (Mg/kg)	BDL	0.005	0.054	0.09	BDL	BDL	0.1
Zinc (Mg/kg)	BDL	0.076	BDL	BDL	BDL	BDL	5.0
Copper (Mg/kg)	BDL	BDL	BDL	BDL	BDL	BDL	3.0
Cadmium (Mg/kg)	BDL	BDL	BDL	BDL	BDL	BDL	2.0
Mercury (Mg/kg)	-	-	-	-	-	-	0.01
Antimony (Mg/kg)	-	-	-	-	-	-	-
Barium (Mg/kg)	BDL	BDL	BDL	BDL	BDL	BDL	-
Cobalt (Mg/kg)	BDL	BDL	BDL	BDL	BDL	BDL	-
Manganese (Mg/kg)	BDL	BDL	BDL	BDL	BDL	BDL	2.0
Strontium (Mg/kg)	-	-	-	-	-	-	-


 Joint Chief Environmental Scientist

TELANGANA STATE POLLUTION CONTROL BOARD, CENTRAL LAB, HYDERABAD

ANALYSIS RESULTS OF HUSSAINSAGAR LAKE - WATER - BEFORE, DURING AND AFTER IMMERSION OF GANESH IDOLS IN AUGUST & SEPTEMBER., 2022

Location: At Necklace Road

Parameters	Before	During immersion				After	CPCB Water Quality Criteria
	29.08.2022	02.09.2022	05.09.2022	07.09.2022	09.09.2022	12.09.2022	
Sample code	2208363	2209018	2209064	2209100	2209125	2209155	
Colour	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	
Turbidity	57	70	137	100	112	98	-
EC (µmhos/cm)	1310	1400	1310	1287	1130	1204	Max - 2250 µmhos/cm
pH	6.62	7.15	8.24	8.28	7.80	7.15	6.0-9.0
TSS (mg/L)	15	17	22	49	51	10	-
Total Solids	728	779	732	754	880	699	
TDS (mg/L)	713	762	710	705	829	689	-
DO (mg/L)	3.6	3.5	3.4	3.6	3.0	3.7	Min - 4 mg/L
COD (mg/L)	61	114	160	157	182	57	-
BOD (mg/L)	16	20	28	24	32	13	Max - 3 mg/L
Total Alkalinity as CaCO ₃	336	336	320	320	340	320	-
Total Hardness as CaCO ₃	280	292	292	404	288	272	-
Chlorides as Cl ⁻	140	136	140	130	124	116	-
T. Coli (MPN/100ml)	280	350	430	1600	1600	350	50 - 5000 MPN/100 ml
F. Coli (MPN/100ml)	14	33	70	140	220	22	-
Heavy Metals							Inland surface water standards
Chromium (Mg/kg)	BDL	BDL	BDL	BDL	BDL	BDL	2.0
Lead (Mg/kg)	BDL	BDL	0.005	0.169	BDL	BDL	0.1
Zinc (Mg/kg)	BDL	BDL	BDL	0.027	BDL	BDL	5.0
Copper (Mg/kg)	BDL	BDL	BDL	BDL	BDL	BDL	3.0
Cadmium (Mg/kg)	BDL	BDL	BDL	BDL	BDL	BDL	2.0
Mercury (Mg/kg)	-	-	-	-	-	-	0.01
Antimony (Mg/kg)	-	-	-	-	-	-	-
Barium (Mg/kg)	BDL	BDL	BDL	BDL	BDL	BDL	-
Cobalt (Mg/kg)	BDL	BDL	BDL	BDL	BDL	BDL	-
Manganese (Mg/kg)	BDL	BDL	BDL	BDL	BDL	BDL	2.0
Strontium (Mg/kg)	-	-	-	-	-	-	-

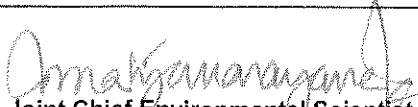

 Joint Chief Environmental Scientist

TELANGANA STATE POLLUTION CONTROL BOARD, CENTRAL LAB, HYDERABAD

ANALYSIS RESULTS OF HUSSAINSAGAR LAKE - WATER - BEFORE, DURING AND AFTER IMMERSION OF GANESH IDOLS IN AUGUST & SEPTEMBER., 2022

Location: Near Lepakshi Handicrafts – Near immersion point

Parameters	Before	During immersion				After	CPCB Water Quality Criteria
	29.08.2022	02.09.2022	05.09.2022	07.09.2022	09.09.2022	12.09.2022	
Sample code	2208368	2209023	2209069	2209105	2209130	2209160	
Colour	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	
Turbidity	35	58	79	90	90	36	-
EC (µmhos/cm)	1312	1360	1245	1328	1308	1210	Max - 2250 µmhos/cm
pH	7.54	7.66	8.50	8.20	7.61	7.20	6.0-9.0
TSS (mg/L)	17	22	13	19	42	13	-
Total Solids	729	768	765	749	776	737	
TDS (mg/L)	712	746	752	730	734	724	-
DO (mg/L)	4.0	3.8	3.9	3.3	3.2	3.4	Min - 4 mg/L
COD (mg/L)	57	114	116	97	126	61	-
BOD (mg/L)	12	22	26	20	32	12	Max - 3 mg/L
Total Alkalinity as CaCO ₃	320	328	332	332	320	296	-
Total Hardness as CaCO ₃	284	284	288	260	328	260	-
Chlorides as Cl ⁻	132	130	134	130	152	114	-
T. Coli (MPN/100ml)	220	280	1600	920	1600	350	50 - 5000 MPN/100 ml
F.Coli (MPN/100ml)	9	39	170	79	220	33	-
Heavy Metals							Inland surface water standards
Chromium (Mg/kg)	BDL	BDL	BDL	BDL	BDL	BDL	2.0
Lead (Mg/kg)	BDL	0.029	BDL	0.116	BDL	BDL	0.1
Zinc (Mg/kg)	BDL	BDL	BDL	BDL	BDL	BDL	5.0
Copper (Mg/kg)	BDL	BDL	BDL	BDL	BDL	BDL	3.0
Cadmium (Mg/kg)	BDL	BDL	BDL	BDL	BDL	BDL	2.0
Mercury (Mg/kg)	-	-	-	-	-	-	0.01
Antimony (Mg/kg)	-	-	-	-	-	-	-
Barium (Mg/kg)	BDL	BDL	BDL	BDL	BDL	BDL	-
Cobalt (Mg/kg)	BDL	BDL	BDL	BDL	BDL	BDL	-
Manganese (Mg/kg)	BDL	BDL	BDL	BDL	BDL	BDL	2.0
Strontium (Mg/kg)	-	-	-	-	-	-	-


 Joint Chief Environmental Scientist

TELANGANA STATE POLLUTION CONTROL BOARD, CENTRAL LAB, HYDERABAD

ANALYSIS RESULTS OF HUSSAINSAGAR LAKE - WATER - BEFORE, DURING AND AFTER IMMERSION OF GANESH IDOLS IN AUGUST & SEPTEMBER., 2022

Location: Near Budha Statue (midstream) – Control point

Parameters	Before	During immersion				After	CPCB Water Quality Criteria
	29.08.2022	02.09.2022	05.09.2022	07.09.2022	09.09.2022	12.09.2022	
Sample code	2208367	2209022	2209068	2209104	2209129	2209159	
Colour	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	
Turbidity	32.0	41	58	63	96	46	-
EC (µmhos/cm)	1288	1381	1232	1304	1200	1170	Max - 2250 µmhos/cm
pH	7.34	7.56	8.21	8.24	7.71	7.23	6.0-9.0
TSS (mg/L)	11	22	34	79	82	16	-
Total Solids	716	786	706	911	900	659	
TDS (mg/L)	705	764	672	832	818	643	-
DO (mg/L)	4.0	3.7	3.6	3.5	3.1	3.8	Min - 4 mg/L
COD (mg/L)	49	69	88	89	101	32	-
BOD (mg/L)	11	17	19	19	24	8	Max - 3 mg/L
Total Alkalinity as CaCO ₃	316	324	332	324	324	304	-
Total Hardness as CaCO ₃	276	280	284	436	260	264	-
Chlorides as Cl ⁻	130	132	142	134	122	112	-
T. Coli (MPN/100ml)	220	920	920	1,600	1600	920	50 - 5000 MPN/100 ml
F.Coli (MPN/100ml)	17	24	110	110	130	33	-
Heavy Metals							Inland surface water standards
Chromium (Mg/kg)	BDL	BDL	BDL	BDL	BDL	BDL	2.0
Lead (Mg/kg)	BDL	0.029	0.005	0.063	BDL	BDL	0.1
Zinc (Mg/kg)	BDL	BDL	BDL	BDL	BDL	BDL	5.0
Copper (Mg/kg)	BDL	BDL	BDL	BDL	BDL	BDL	3.0
Cadmium (Mg/kg)	BDL	BDL	BDL	BDL	BDL	BDL	2.0
Mercury (Mg/kg)	-	-	-	-	-	-	0.01
Antimony (Mg/kg)	-	-	-	-	-	-	-
Barium (Mg/kg)	BDL	BDL	BDL	BDL	BDL	BDL	-
Cobalt (Mg/kg)	BDL	BDL	BDL	BDL	BDL	BDL	-
Manganese (Mg/kg)	BDL	BDL	BDL	BDL	BDL	BDL	2.0
Strontium (Mg/kg)	-	-	-	-	-	-	-


 Joint Chief Environmental Scientist