

TELANGANA STATE POLLUTION CONTROL BOARD, CENTRAL LAB, HYDERABAD

ANALYSIS RESULTS OF HUSSAINSAGAR LAKE BEFORE, DURING AND AFTER IMMERSION OF GANESH IDOLS IN AUG & SEP 2020

Location: Opposite to NTR Park at Platform No.1

Parameters	Before	During immersion					After	CPCB Water Quality Criteria
	20.08.2020	25.08.2020	27.08.2020	29.08.2020	31.08.2020	03.09.2020	09.09.2020	
pH	7.55	7.68	7.82	7.89	7.98	7.88	7.66	6.0-9.0
Turbidity	30	66	45	42	44	83	40	-
EC (μ mhos/cm)	992	1089	1094	1095	1109	1098	1133	Max - 2250 μ mhos/cm
TDS (mg/L)	567	641	684	654	689	667	664	-
TSS (mg/L)	16	52	68	68	32	27	13	-
COD (mg/L)	80	92	89	82	53	128	82	-
BOD (mg/L)	18	24	27	26	30	43	19	Max - 3 mg/L
DO (mg/L)	3.6	3.2	2.9	3.7	3.2	2.6	3.8	Min - 4 mg/L
T. Coli (MPN/100ml)	>1600	1600	1600	1600	1600	1600	1600	50 - 5000 MPN/100 ml
F.Coli (MPN/100ml)	430	540	350	430	350	350	430	-
Heavy Metals								Inland surface water standards
Copper (mg/L)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3.0
Zinc (mg/L)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5.0
Total Chromium (mg/L)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2.0
Lead (mg/L)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.1

* Ganesh Festival Celebrated on 22.08.2020

** Final Ganesh Immersion on 01.09.2020


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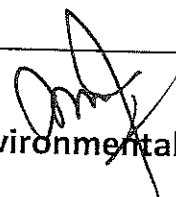
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ANALYSIS RESULTS OF HUSSAINSAGAR LAKE BEFORE, DURING AND AFTER IMMERSION OF GANESH IDOLS IN AUG & SEP 2020

Location: Opposite to NTR Park at Platform No.2

Parameters	Before	During immersion					After	CPCB Water Quality Criteria
	20.08.2020	25.08.2020	27.08.2020	29.08.2020	31.08.2020	03.09.2020	09.09.2020	
pH	7.51	7.86	7.81	7.79	7.86	7.97	7.67	6.0-9.0
Turbidity	26	57	108	87	179	123	44	-
EC (μ mhos/cm)	1023	1074	1108	1107	1093	1082	1129	Max - 2250 μ mhos/cm
TDS (mg/L)	544	668	677	693	678	635	450	-
TSS (mg/L)	21	44	45	41	36	65	32	-
COD (mg/L)	69	157	105	89	120	157	90	-
BOD (mg/L)	39	22	25	33	27	49	21	Max - 3 mg/L
DO (mg/L)	3.0	2.9	3.2	3.3	3.1	3.9	5.6	Min - 4 mg/L
T. Coli (MPN/100ml)	1600	>1600	>1600	>1600	>1600	>1600	>1600	50 - 5000 MPN/100 ml
F.Coli (MPN/100ml)	350	920	430	430	540	540	540	-
Heavy Metals								Inland surface water standards
Copper (mg/L)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3.0
Zinc (mg/L)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5.0
Total Chromium (mg/L)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2.0
Lead (mg/L)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.1


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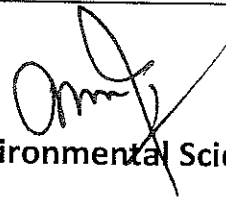
ANALYSIS RESULTS OF HUSSAINSAGAR LAKE BEFORE, DURING AND AFTER IMMERSION OF GANESH IDOLS IN AUG & SEP 2020

Location: Near Lumbini Park

Parameters	Before	During immersion					After	CPCB Water Quality Criteria
	20.08.2020	25.08.2020	27.08.2020	29.08.2020	31.08.2020	03.09.2020	09.09.2020	
pH	7.67	7.90	7.86	7.90	7.93	8.18	7.99	6.0-9.0
Turbidity	40	58	72	47	88	151	44	-
EC (μ mhos/cm)	1082	1079	1106	1101	1096	1076	1107	Max - 2250 μ mhos/cm
TDS (mg/L)	596	698	677	688	668	655	614	-
TSS (mg/L)	36	50	62	45	66	131	20	-
COD (mg/L)	96	68	109	73	75	125	49	-
BOD (mg/L)	30	20	32	23	22	25	18	Max - 3 mg/L
DO (mg/L)	4.5	4.9	2.4	3.9	3.3	3.7	6.2	Min - 4 mg/L
T. Coli (MPN/100ml)	>1600	>1600	>1600	920	920	920	1600	50 - 5000 MPN/100 ml
F.Coli (MPN/100ml)	540	540	540	350	240	430	430	-
Heavy Metals								Inland surface water standards
Copper (mg/L)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3.0
Zinc (mg/L)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5.0
Total Chromium (mg/L)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2.0
Lead (mg/L)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.1


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ANALYSIS RESULTS OF HUSSAINSAGAR LAKE BEFORE, DURING AND AFTER IMMERSION OF GANESH IDOLS IN AUG & SEP 2020

Location: Near Lepakshi Handicrafts – Near immersion point

Parameters	Before	During immersion					After	CPCB Water Quality Criteria
	20.08.2020	25.08.2020	27.08.2020	29.08.2020	31.08.2020	03.09.2020	09.09.2020	
pH	7.75	7.84	7.71	8.02	8.12	8.04	7.40	6.0-9.0
Turbidity	33	41	34	30	38	93	21	-
EC (µmhos/cm)	1103	1067	1090	1074	1081	1071	1148	Max - 2250 µmhos/cm
TDS (mg/L)	612	666	670	638	644	683	638	-
TSS (mg/L)	28	51	42	44	41	46	32	-
COD (mg/L)	100	112	89	78	75	122	65	-
BOD (mg/L)	19	20	28	23	29	35	18	Max - 3 mg/L
DO (mg/L)	3.4	3.6	4.0	3.0	3.2	3.0	4.2	Min - 4 mg/L
T. Coli (MPN/100ml)	920	1600	920	>1600	>1600	>1600	>1600	50 - 5000 MPN/100 ml
F. Coli (MPN/100ml)	280	430	240	350	430	430	430	-
Heavy Metals								Inland surface water standards
Copper (mg/L)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3.0
Zinc (mg/L)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5.0
Total Chromium (mg/L)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2.0
Lead (mg/L)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.1


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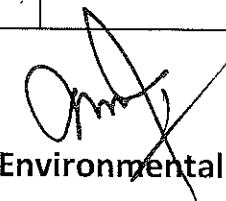
ANALYSIS RESULTS OF HUSSAINSAGAR LAKE BEFORE, DURING AND AFTER IMMERSION OF GANESH IDOLS IN AUG & SEP 2020

Location: At Necklace Road

Parameters	Before	During immersion					After	CPCB Water Quality Criteria
	20.08.2020	25.08.2020	27.08.2020	29.08.2020	31.08.2020	03.09.2020	09.09.2020	
pH	7.70	7.84	8.04	7.88	8.26	8.03	7.40	6.0-9.0
Turbidity	33	41	37	38	19	48	40	-
EC (μ mhos/cm)	1080	1075	1066	1072	1072	1087	1212	Max - 2250 μ mhos/cm
TDS (mg/L)	579	660	612	657	626	665	581	-
TSS (mg/L)	20	39	33	43	81	99	38	-
COD (mg/L)	68	88	56	86	69	131	70	-
BOD (mg/L)	23	25	26	25	23	39	15	Max - 3 mg/L
DO (mg/L)	4.5	3.8	3.6	3.6	3.5	3.7	4.2	Min - 4 mg/L
T. Coli (MPN/100ml)	>1600	1600	>1600	>1600	1600	>1600	>1600	50 - 5000 MPN/100 ml
F.Coli (MPN/100ml)	430	350	920	540	350	540	350	-
Heavy Metals								Inland surface water standards
Copper (mg/L)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3.0
Zinc (mg/L)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5.0
Total Chromium (mg/L)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2.0
Lead (mg/L)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.1


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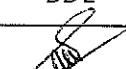
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ANALYSIS RESULTS OF HUSSAINSAGAR LAKE BEFORE, DURING AND AFTER IMMERSION OF GANESH IDOLS IN AUG & SEP 2020

Location: Near Budha Statue (midstream) – Control point

Parameters	Before	During immersion					After	CPCB Water Quality Criteria
	20.08.2020	25.08.2020	27.08.2020	29.08.2020	31.08.2020	03.09.2020	09.09.2020	
pH	7.82	7.89	7.85	7.87	8.03	8.29	8.23	6.0-9.0
Turbidity	30	38	36	29	31	38	29	-
EC (µmhos/cm)	1081	1066	1078	1076	1082	1069	1106	Max - 2250 µmhos/cm
TDS (mg/L)	588	654	641	632	641	770	608	-
TSS (mg/L)	18	37	22	27	26	25	15	-
COD (mg/L)	49	80	97	65	69	108	74	-
BOD (mg/L)	16	24	21	20	29	35	18	Max - 3 mg/L
DO (mg/L)	2.4	3.4	4	4.2	3.6	3.5	4.5	Min - 4 mg/L
T. Coli (MPN/100ml)	1600	920	1600	920	920	1600	920	50 - 5000 MPN/100 ml
F. Coli (MPN/100ml)	540	350	280	240	170	350	210	-
Heavy Metals								Inland surface water standards
Copper (mg/L)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3.0
Zinc (mg/L)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5.0
Total Chromium (mg/L)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2.0
Lead (mg/L)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.1


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