



# DELHI POLLUTION CONTROL COMMITTEE

(Government of N.C.T. of Delhi)

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## COMPARATIVE STATUS OF WATER QUALITY OF RIVER YAMUNA ON THE OCCASION OF GANESH CHATHURTI (2018 & 2019)

Report No: DPCC/W/IM/19-20/01-10/

Date:

S.No	Location	Period of Monitoring	pH	TSS (mg/l)	COD (mg/l)	BOD (mg/l)	DO (mg/l)	TDS (mg/l)	Total Solid	Cu (mg/l)	Cr (mg/l)	Ni (mg/l)	Fe (mg/l)	Cd (mg/l)	Pb (mg/l)	Zn (mg/l)	Total Metal (mg/l)	% Variation
1	Shyam Ghat	Pre Immersion (11.09.2018)	7.2	184	20	6	6.9	319	503	ND	ND	0.78	0.73	ND	ND	0.80	2.31	TSS- 86.9 % Decrease COD- 20% Decrease BOD- 3.3 % Increase T.M- 43.2 % Decrease
		Pre Immersion (12.09.19)	7.9	24	16	6.2	6.0	200	224	ND	ND	ND	0.79	ND	ND	0.52	1.31	TSS- 98.4 % Decrease COD- 85.7% Decrease BOD- 95.5 % Decrease T.M- 80.6 % Decrease
		Post Immersion (25.09.2018)	7.0	1008	28	9	8.6	112	1120	0.22	1.79	0.60	0.47	ND	ND	0.18	3.26	TSS- 38.4% Decrease COD- 61.5% Decrease BOD- 66.2 % Decrease T.M- 48.8 % Decrease
		Post Immersion (13.09.19)	7.9	16	4.0	0.4	6.0	200	216	ND	ND	0.16	0.21	ND	ND	0.26	0.63	TSS- 36.31% Decrease COD- 20% Decrease BOD- 20 % Decrease T.M- 70.6 % Decrease
2	Ram Ghat	Pre Immersion (11.09.2018)	7.1	26	52	16	NIL	224	250	ND	ND	1.19	0.60	ND	ND	0.91	2.70	TSS- 36.31% Decrease COD- 20% Decrease BOD- 20 % Decrease T.M- 70.6 % Decrease
		Pre Immersion (12.09.19)	8	16	20	5.4	2.2	237	353	0.08	ND	1.03	ND	ND	ND	0.27	1.38	TSS- 36.31% Decrease COD- 20% Decrease BOD- 20 % Decrease T.M- 70.6 % Decrease
		Post Immersion (25.09.2018)	7.6	22	20	6	NIL	270	292	0.25	0.96	1.33	0.25	ND	ND	0.38	3.17	TSS- 36.31% Decrease COD- 20% Decrease BOD- 20 % Decrease T.M- 70.6 % Decrease
		Post Immersion (13.09.19)	7.4	14	16	4.8	1.6	398	412	ND	ND	0.15	ND	ND	ND	0.78	0.93	TSS- 36.31% Decrease COD- 20% Decrease BOD- 20 % Decrease T.M- 70.6 % Decrease

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5	Kudesia Ghat	Pre Immersion (11.09.2018)	7.4	176	56	18	4.1	408	584	ND	ND	0.64	0.54	ND	ND	0.58	1.76	TSS- 80.6% Decrease COD- 28.5% Decrease BOD- 35.5% Decrease T.M- 43.7 % Decrease
		Pre Immersion (12.09.19)	8.1	34	40	11.6	NIL	573	607	ND	ND	ND	0.53	ND	ND	0.46	0.99	
		Post Immersion (25.09.2018)	7.1	180	60	18	NIL	452	632	0.19	1.31	1.33	0.25	ND	ND	0.43	3.51	
		Post Immersion (13.09.19)	7.6	24	28	8	0.5	234	258	ND	ND	0.45	0.23	ND	ND	0.29	0.97	
6	Geeta Ghat	Pre Immersion (11.09.2018)	7.1	164	20	6	1.9	190	354	ND	ND	1.26	0.52	ND	ND	0.54	2.32	TSS- 79.2% Decrease COD- 120% Increase BOD- 60% Increase T.M- 36.6 % Decrease
		Pre Immersion (12.09.19)	8.2	34	44	9.6	2.8	443	477	ND	ND	1.17	0.3	ND	ND	ND	1.47	
		Post Immersion (25.09.2018)	7.6	710	48	15	1.2	300	1010	0.21	1.62	1.46	0.62	ND	ND	0.41	4.32	
		Post Immersion (13.09.19)	7.4	22	36	8.8	5	398	420	ND	ND	ND	ND	ND	ND	0.38	0.38	

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3	Sur Ghat	Pre Immersion (11.09.2018)	7.4	436	16	6	5.4	139	575	ND	ND	1.05	0.80	ND	ND	0.97	2.82	TSS- 94.9% Decrease COD- 25% Decrease BOD- 23.3% Decrease T.M- No Variation
		Pre Immersion (12.09.19)	8.1	22	12	4.6	5.8	213	235	ND	ND	1.50	0.44	ND	ND	0.88	2.82	
		Post Immersion (25.09.2018)	7.4	878	40	12	8	155	1033	0.21	1.48	1.16	0.77	ND	ND	0.45	4.07	TSS- 97.4% Decrease COD- 80% Decrease BOD- 83.3% Decrease T.M- 55.7 % Decrease
		Post Immersion (13.09.19)	7.1	22	8	2.0	4.0	210	232	ND	ND	ND	ND	ND	ND	1.80	1.80	
4	Kali Ghat	Pre Immersion (11.09.2018)	7.1	28	40	14	0.7	278	306	ND	ND	1.22	0.62	ND	ND	0.54	2.38	TSS- 35.7% Increase COD- 70% Increase BOD- 60.7% Increase T.M- 25.2 % Increase
		Pre Immersion (12.09.19)	7.9	38	68	22.5	NIL	255	293	0.01	ND	1.58	ND	0.41	0.82	0.16	2.98	
		Post Immersion (25.09.2018)	7.2	54	64	20	NIL	267	321	0.14	1.70	1.16	0.15	ND	ND	0.45	3.60	TSS- 66.6% Decrease COD- 62.5% Decrease BOD- 69% Decrease T.M- 81.6 % Decrease
		Post Immersion (13.09.19)	7.5	18	24	6.2	1	203	221	ND	ND	0.15	ND	ND	ND	0.51	0.66	

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7	Geeta Colony Ghat	Pre Immersion (11.09.2018)	7.1	170	44	14	2.1	198	368	ND	ND	1.15	0.34	ND	ND	0.58	2.07	TSS- 83.5% Decrease COD- 9.0% Decrease BOD- 32.8% Decrease T.M- 1.9 % Increase
		Pre Immersion (12.09.19)	8.1	28	40	9.4	2.8	446	474	ND	ND	1.45	ND	ND	ND	0.66	2.11	
		Post Immersion (25.09.2018)	7.3	378	40	12	NIL	216	591	0.21	1.27	1.46	0.44	ND	ND	0.45	3.83	TSS- 95.2% Decrease COD- 70% Decrease BOD- 68.3% Decrease T.M- 82.5 % Decrease
		Post Immersion (13.09.19)	7.6	18	12	3.8	5	402	420	ND	ND	0.15	ND	ND	ND	0.52	0.67	
8	Hathi Ghat	Pre Immersion (11.09.2018)	7.4	302	32	12	NIL	304	606	ND	ND	1.03	0.71	ND	ND	0.80	2.54	TSS- 58.9% Decrease COD- 112% Increase BOD- 100% Increase T.M- 0.7 % Decrease
		Pre Immersion (12.09.19)	8	124	68	24	NIL	523	647	0.9	ND	0.15	1.05	ND	0.42	ND	2.52	
		Post Immersion (25.09.2018)	7.3	1172	48	17	NIL	342	1514	0.02	1.53	1.51	0.51	ND	ND	0.82	4.39	TSS- 95.5% Decrease COD- 25% Increase BOD- 8.8% Increase T.M- 62.1 % Decrease
		Post Immersion (13.09.19)	7.6	52	60	18.5	NIL	503	555	0.01	ND	0.89	ND	ND	ND	0.76	1.66	

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9	Mayur Vihar Ghat	Pre Immersion (11.09.2018)	7.2	298	84	26	NIL	234	532	ND	ND	1.42	0.42	ND	ND	0.71	2.55	TSS- 77.1% Decrease COD- 23.8% Decrease BOD- 15.3% Decrease T.M- 9.4% Decrease
		Pre Immersion (12.09.19)	7.9	68	64	22	NIL	638	598	ND	ND	1.31	0.4	ND	ND	0.6	2.31	TSS- 94.3% Decrease COD- 40% Decrease BOD- 43.71% Decrease T.M- 71.3% Decrease
		Post Immersion (25.09.2018)	7.3	714	80	27	1.4	208	1022	0.16	0.89	1.68	0.51	ND	ND	0.74	3.98	
		Post Immersion (13.09.19)	7.7	40	48	15.2	1.8	288	328	ND	ND	0.44	ND	ND	ND	0.7	1.14	
10	Kalindi Ghat	Pre Immersion (11.09.2018)	7.5	360	88	26	2.7	250	610	ND	ND	1.61	0.33	ND	ND	0.76	2.70	TSS- 92.2% Decrease COD- 40.9% Decrease BOD- 46.1% Decrease T.M- 3.7% Decrease
		Pre Immersion (12.09.19)	7.9	28	52	14	2.9	400	428	ND	ND	1.6	0.3	ND	ND	0.7	2.6	
		Post Immersion (25.09.2018)	7.3	816	108	35	NIL	1113	1929	1.00	1.42	0.44	ND	ND	ND	0.45	3.31	TSS- 96.5% Decrease COD- 48.1% Decrease BOD- 55.7% Decrease T.M- 62.5% Decrease
		Post Immersion (13.09.19)	7.6	28	56	15.5	2.3	425	453	0.67	ND	0.2	0.1	ND	ND	0.27	1.24	

**CONCLUSION:** The Water quality of River Yamuna was found to be improved w.r.t. DO, BOD, TSS & Toxic metals as compared to Year 2018 during Ganesh Chaturthi Idol immersion.

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