



DELHI POLLUTION CONTROL COMMITTEE

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

4th Floor, I.S.B.T. Building, Kashmere Gate, Delhi - 110006

Website : <http://www.dpcc.delhigovt.nic.in>

ASSESSMENT OF WATER QUALITY OF RIVER YAMUNA ON GANESH CHATURTHI

Report No: DPCC/W/IM/18-19/01-10/1608

Date: 11.10.2018

26/11/2018

S.No.	Location	Period of Monitoring	UP Stream / Down stream	pH	TSS	COD	BOD	DO	TDS	Total Solid	Cu	Cr	Ni	Fe	Cd	Pb	Zn	Remarks		
1	Sham Ghat	Pre Immersion	U/S	7.3	176	16	5	7	316	492	ND	ND	0.80	0.71	ND	ND	0.84	TSS- High during & post immersion. BOD & DO no significant change. Metal contamination found during and post immersion except Pb.		
			D/S	7.2	184	20	6	6.9	319	503	ND	ND	0.78	0.73	ND	ND	0.80			
		During Immersion	U/S	7.4	112	26	8	8.5	345	457	0.34	3.26	1.15	0.78	0.51	ND	ND		1.15	
			D/S	7.4	272	24	8	6	352	624	0.57	2.72	0.60	1.28	0.48	ND	ND		1.12	
		Post Immersion	U/S	7.2	870	26	8	9	115	985	0.12	1.62	0.55	0.25	ND	ND	ND		ND	ND
			D/S	7.0	1008	28	9	8.6	112	1120	0.22	1.79	0.60	0.47	ND	ND	ND		ND	0.18
2	Ram Ghat	Pre Immersion	U/S	7.4	20	28	10	0.9	235	255	ND	ND	0.95	0.59	ND	ND	ND	0.84	TSS- Slightly during immersion high. BOD- No significant change Decreasing trend on post immersion. DO- NIL at all the period of monitoring. Metal contamination found (except Cd, Pb). during and post immersion	
			D/S	7.1	26	52	16	NIL	224	250	ND	ND	1.19	0.60	ND	ND	ND	0.91		
		During Immersion	U/S	7.3	54	32	10	NIL	332	386	0.28	2.24	1.63	0.78	ND	ND	ND	0.76		
			D/S	7.5	72	36	12	NIL	350	422	0.38	2.28	1.61	0.81	ND	ND	ND	0.63		
		Post Immersion	U/S	7.7	18	16	4	NIL	269	287	0.01	0.92	1.29	0.29	ND	ND	ND	ND		ND
			D/S	7.6	22	20	6	NIL	270	292	0.25	0.96	1.33	0.25	ND	ND	ND	ND		0.38

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S.No	Location	Period of Monitoring	UP Stream/ Down stream	pH	TSS	COD	BOD	DO	TDS	Total Solid	Cu	Cr	Ni	Fe	Cd	Pb	Zn	Remarks		
3.	Kali Ghat	Pre Immersion	U/S	7.2	26	32	10	1.6	222	248	ND	ND	1.24	0.51	ND	ND	0.90	TSS- No significant change. BOD- No significant change. DO- present during pre- immersion, and NIL During immersion. Metal contamination was found except Pb during immersion		
			D/S	7.1	28	40	14	0.7	278	306	ND	ND	1.22	0.62	ND	ND	0.54			
		During Immersion	U/S	7.4	26	44	15	NIL	332	358	0.36	2.86	1.68	0.61	0.63	ND	ND		1.18	
			D/S	7.2	34	56	18	NIL	385	392	0.44	2.69	1.54	0.61	0.75	ND	ND		1.01	
		Post Immersion	U/S	7.3	50	36	12	1.0	263	313	0.12	0.74	0.68	0.33	ND	ND	ND		0.19	
			D/S	7.2	54	64	20	NIL	267	321	0.14	1.70	1.16	0.15	ND	ND	ND		0.45	
4.	Surghat	Pre Immersion	U/S	7.5	408	12	4	5.9	188	596	ND	ND	1.30	0.61	ND	ND	ND	0.84	TSS- Significant increase. BOD- increase during immersion. DO- present at time of monitoring. Metal contamination was found except Cd and Pb.	
			D/S	7.4	436	16	6	5.4	139	575	ND	ND	1.50	0.44	ND	ND	ND	0.88		
		During Immersion	U/S	7.6	208	64	20	4.3	342	550	0.48	3.30	1.97	0.72	ND	ND	ND	1.13		
			D/S	7.7	492	68	22	3.2	348	840	0.56	3.20	1.93	0.69	ND	ND	ND	1.06		
		Post Immersion	U/S	7.5	672	28	10	9	160	832	0.10	0.92	0.73	0.36	ND	ND	ND	ND		0.36
			D/S	7.4	878	40	12	8	155	1033	0.21	1.48	1.16	0.77	ND	ND	ND	ND		0.45
5.	Kudesia Ghat	Pre Immersion	U/S	7.4	170	52	16	4.4	410	520	ND	ND	0.88	0.52	ND	ND	ND	ND	0.62	TSS- No significant change. BOD- No significant change. DO- was found during pre -immersion but NIL during post immersion Metal contamination was found except Pb.
			D/S	7.4	176	56	18	4.1	408	584	ND	ND	0.64	0.54	ND	ND	ND	ND	0.58	
		During Immersion	U/S	7.3	124	72	24	NIL	677	801	0.28	1.73	1.99	3.32	1.18	ND	ND	ND	0.93	
			D/S	7.4	126	80	26	NIL	660	786	0.48	1.56	2.01	3.49	1.21	ND	ND	ND	0.88	
		Post Immersion	U/S	7.2	164	64	20	NIL	446	610	0.07	1.18	1.03	0.21	ND	ND	ND	ND	ND	
			D/S	7.1	180	60	18	NIL	452	632	0.19	1.31	1.33	0.25	ND	ND	ND	ND	0.43	


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S.No.	Location	Period of Monitoring	UP Stream / Down stream	pH	TSS	COD	BOD	DO	TDS	Total Solid	Cu	Cr	Ni	Fe	Cd	Pb	Zn	Remarks
6	Geeta Ghat	Pre Immersion	U/S	7.3	152	12	4	2.5	197	349	ND	ND	1.15	0.46	ND	ND	0.92	TSS- Increase during post immersion BOD- No significant change. DO- NIL during post immersion. Metal contamination found except Cd and Pb.
			D/S	7.1	164	20	6	1.9	190	354	ND	ND	1.26	0.52	ND	ND	0.54	
		During Immersion	U/S	7.2	110	44	15	2.5	398	508	0.33	1.16	2.19	0.78	ND	ND	0.95	
			D/S	7.4	140	64	20	3.0	408	548	0.48	1.84	2.12	1.28	ND	ND	0.93	
		Post Immersion	U/S	7.7	634	40	12	2.0	168	902	0.16	1.14	1.20	0.33	ND	ND	0.23	
			D/S	7.6	710	48	15	1.2	300	1010	0.21	1.62	1.46	0.62	ND	ND	0.41	
7	Geeta Colony Ghat	Pre Immersion	U/S	7.3	168	36	12	3.4	202	370	ND	ND	0.84	0.30	ND	ND	0.84	TSS- Significant increase during Post- immersion. BOD- No significant change. DO- NIL during post immersion. Metal contamination found except Cd and Pb.
			D/S	7.1	170	44	14	2.1	198	368	ND	ND	1.15	0.34	ND	ND	0.58	
		During Immersion	U/S	7.5	136	52	16	1.8	503	369	0.36	1.77	1.98	1.45	ND	ND	0.93	
			D/S	7.7	150	60	20	1.6	522	672	0.44	1.36	1.86	1.79	ND	ND	0.86	
		Post * Immersion	U/S	7.2	316	32	10	NIL	230	546	0.04	1.22	1.25	0.25	ND	ND	0.23	
			D/S	7.3	378	40	12	NIL	216	591	0.21	1.27	1.46	0.44	ND	ND	0.45	
8.	Hathi Ghat	Pre Immersion	U/S	7.6	272	40	14	NIL	297	569	ND	ND	0.84	0.65	ND	ND	0.76	TSS- significant increase. BOD- No significant change. DO- NIL all the time of monitoring. Metal contamination found except Pb.
			D/S	7.4	302	32	12	NIL	304	606	ND	ND	1.03	0.71	ND	ND	0.80	
		During Immersion	U/S	7.4	574	64	22	NIL	554	1128	0.35	1.97	1.86	2.98	1.30	ND	2.01	
			D/S	7.5	644	76	25	NIL	526	1206	0.43	1.94	2.05	4.00	1.12	ND	1.98	
		Post Immersion	U/S	7.1	1038	52	16	NIL	340	1378	0.01	1.22	1.33	0.29	ND	ND	0.74	
			D/S	7.3	1172	48	17	NIL	342	1514	0.02	1.53	1.51	0.51	ND	ND	0.82	


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S.No.	Location	Period of Monitoring	UP Stream / Down stream	pH	TSS	COD	BOD	DO	TDS	Total Solid	Cu	Cr	Ni	Fe	Cd	Pb	Zn	Remarks
9	Mayur Vihar Ghat	Pre Immersion	U/S	7.5	252	76	25	0.9	226	478	ND	ND	1.46	0.38	ND	ND	0.63	TSS- Significant Increase. BOD- No significant change. DO- Nil during immersion. Metal contamination found except Pb. Cd during immersion.
			D/S	7.2	298	84	26	NIL	234	532	ND	ND	1.42	0.42	ND	ND	0.71	
		During Immersion	U/S	7.3	320	92	30	NIL	530	850	0.46	1.60	2.24	0.78	1.24	ND	1.21	
			D/S	7.5	400	88	28	NIL	537	937	0.52	0.85	2.18	1.45	1.25	ND	1.13	
		Post Immersion	U/S	7.2	672	72	25	1.5	346	1018	0.11	0.60	1.51	0.18	ND	ND	0.35	
			D/S	7.3	714	80	27	1.4	208	1022	0.16	0.89	1.68	0.51	ND	ND	0.74	
10	Kalindi Ghat	Pre Immersion	U/S	7.6	312	76	24	2.2	244	556	ND	ND	0.91	0.32	ND	ND	0.67	TSS- Significant increase. BOD- No significant change. DO- NIL during post immersion. Metal contamination found except Pb.
			D/S	7.5	360	80	26	2.7	250	610	ND	ND	1.61	0.33	ND	ND	0.76	
		During Immersion	U/S	7.5	110	88	30	NIL	530	640	0.29	1.39	2.01	1.11	1.32	ND	1.20	
			D/S	7.6	190	104	34	0.3	677	867	0.37	1.39	1.80	1.28	1.34	ND	1.16	
		Post Immersion	U/S	7.2	779	100	32	NIL	286	1065	0.02	0.70	1.38	0.18	ND	ND	0.49	
			D/S	7.3	816	108	35	NIL	1113	1929	1.00	1.42	0.44	ND	ND	ND	0.45	

* parameters are in mg/l except pH value.

Date of monitoring

Pre Immersion	11.09.18
During Immersion	23.09.18
Post Immersion	25.09.18

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