

Water Quality of River Ganga and Yamuna At Allahabad (UP) during Maghmela (Ardh Kumbha) 2007

23.01.2007

Location	pH	Colour (hazen)	Cond (μ s/cm)	COD (mg/l)	DO (mg/l) 8:00 am 12:00 pm 4:00 pm	CI (mg/l)	BOD (mg/l)	TC MPN/ 100ml	FC MPN/ 100ml 8:00 am 12:00 pm 4:00 pm
Yamuna at Naini Bridge (U/s Sangam)	8.2	15	456		8.9 8.5 8.9	38.7	1.9		5×10^3 7×10^3 1.7×10^3
Ganga at Shstri Bridge (U/s sangam)	8.7	35	315		10.4 9.7 9.9	16.9	5.5		5×10^3 3×10^3 2.2×10^3
Sangam	8.8	25	311		9.9 11.5 11.5	17.9	5.3		3×10^3 2.2×10^3 3×10^3
Yamuna at Karella bagh	8.3	15	464		8.7 8.7 9.1	38.7	2.2		7×10^3 3×10^3 2.3×10^3
Ganga at Phaphamau u/s Sangam	8.6	35	310		10.6 11.0 11.6	16.9	7		1.7×10^3 2.2×10^3 1.3×10^3
Ganga at Diha Ghat d/s Allahabad	8.4	20	412		9.7 9.9 9.6	30.1	4.2		5×10^3 2.7×10^3 2.2×10^3

21.01.2007

Location	pH	Colour (hazen)	Cond (μ s/cm)	COD (mg/l)	DO (mg/l)	CI (mg/l)	BOD (mg/l)	TC MPN/ 100ml	FC MPN/ 100ml
Yamuna at Naini Bridge (U/s Sangam)	8.6	15	459	12	9.5	43.9		1.7×10^4	5.0×10^3
Ganga at Shstri Bridge (U/s Sangam)	8.5	35	319	19	11.4	16.4		7×10^3	2.1×10^3

Sangam	8.7	25	325	21	10.3	21		3 x10 ³	1.7x10 ³
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19.01.2007

Location	pH	Colour (hazen)	Cond (µs/cm)	COD (mg/l)	DO (mg/l) 8:00 am 12:00 pm 4:00 pm	CI (mg/l)	BOD (mg/l)	TC MPN/ 100ml 8:00 am 12:00 pm 4:00 pm	FC MPN/ 100ml 8:00 am 12:00 pm 4:00 pm
Yamuna at Naini Bridge (U/s Sangam)	8.7	15	469	18	9.26 9.99 9.95	47	1.3	1.7 x10 ⁴ 2.2 x10 ⁴ 8 x10 ³	7 x10 ³ 1.1x10 ⁴ 8 x10 ³
Ganga at Shstri Bridge (U/s sangam)	8.9	35	305	34	11.2 11.2 11.1	17	6.8	5 x10 ⁴ 2.4 x10 ⁴ 3 x10 ⁴	1.7 x10 ⁴ 8 x10 ³ 1.3x10 ⁴
Sangam	8.98	25	303	23	10.1 9.4 11	16	6.2	1.1 x10 ⁴ 2.2 x10 ⁴ 2.8 x10 ⁴	5x10 ³ 1.1x10 ⁴ 1.4x10 ⁴
Yamuna at Karella bagh	8.5	15	445	22	9.23 9.44 9.47	49	1.2	3 x10 ⁴ 1.7 x10 ⁴ 2.8 x10 ⁴	1.3 x10 ⁴ 8 x10 ³ 1.1x10 ⁴
Ganga at Phaphamau u/s Sangam	8.9	35	306	33	11.6 11.8 10.7	18	7.1	3 x10 ³ 1.1 x10 ⁴ 1.3 x10 ⁴	1.3 x10 ³ 5 x10 ³ 3 x10 ³
Ganga at Diha Ghat d/s Allahabad	8.9	20	422	16	10.2 10.3 10.4	39	3.7	2.4 x10 ⁴ 5 x10 ⁴ 2.8 x10 ⁴	5 x10 ³ 1.7 x10 ⁴ 8 x10 ³

18.01.2007

Location	pH	Colour (hazen)	Cond (µs/cm)	COD (mg/l)	DO (mg/l)	CI (mg/l)	BOD (mg/l)	TC MPN/ 100ml	FC MPN/ 100ml
Yamuna at Naini Bridge (U/s Sangam)	8.5	15	546	9.6	10.2	48.1	1.0	1.4 x10 ⁴	7 x10 ³
Ganga at Shstri Bridge (U/s Sangam)	8.7	35	350	38.1	12.0	17.0	4.8	2.2 x10 ³	1.3x10 ³
Sangam	8.7	20	484	16.4	10.9	37.0	2.7	2.3 x10 ³	8.0x10 ²

17.01.2007

Location	pH	Colour (hazen)	Cond ($\mu\text{s/cm}$)	DO (mg/l)	Cl (mg/l)	COD (Mg/l)	BOD (mg/l)	TC MNP/ 100ml	FC MNP/ 100ml
Yamuna at Naini Bridge (U/s Sangam)	8.4	10	517	9.7	45	3.7	1.1	8×10^3	3×10^3
Ganga at Shastri Bridge (U/s sangam)	8.8	35	335	12.0	18	30.8	7.6	8×10^2	4×10^2
Sangam	8.7	20	405	11.3	28	14.6	3.0	1.7×10^3	8×10^2

16.01.2007

Location	pH	Colour (hazen)	Cond ($\mu\text{s/cm}$)	COD (mg/l)	DO (mg/l)	Cl (mg/l)	BOD (mg/l)	TC MPN/ 100ml	FC MPN/ 100ml
Yamuna at Naini Bridge (U/s Sangam)	8.5	15	554	11	9.3	49	1.1	1.1×10^4	3.3×10^3
Ganga at Shstri Bridge (U/s Sangam)	8.9	35	372	32	10.7	22	5.5	5.0×10^3	2.2×10^3
Sangam	8.7	20	475	21	9.9	36	3.0	3.3×10^3	2.6×10^3

15.01.2007

Location	PH	Colour (hazen)	Cond ($\mu\text{s/cm}$)	COD (mg/l)	DO (mg/l)	Cl (mg/l)	BOD (mg/l)	TC MPN/ 100ml	FC MPN/ 100ml
Yamuna at Naini Bridge (U/s Sangam)	8.6	15	560	11	9	49	2.1	1.7×10^4	5×10^3
Ganga at Shstri Bridge (U/s sangam)	8.8	35	360	33	11.2	26	5.9	2.8×10^4	3.3×10^3
Sangam	8.7	20	452	23	9.2	37	5.3	1.1×10^4	2.3×10^3

15.01.2007

Location	PH	Colour (hazen)	Cond (µs/cm)	COD (mg/l)	DO (mg/l)	CI (mg/l)	BOD (mg/l)	TC MPN/ 100ml	FC MPN/ 100ml
Yamuna at Naini Bridge (U/s Sangam)	8.6	15	560	11	9	49	2.1	1.7x10 ⁴	5 x 10 ³
Ganga at Shstri Bridge(U/s sangam)	8.8	35	360	33	11.2	26	5.9	2.8x10 ⁴	3.3 x 10 ³
Sangam	8.7	20	452	23	9.2	37	5.3	1.1x10 ⁴	2.3 x 10 ³

14.01.2007

Location	pH	Colour (hazen)	Con d (µs/cm)	CO D (mg/l)	DO (mg/l)			CI (mg/l)	BO D (mg/l)	TC MNP/ 100ml			FC MNP/ 100ml		
					8.00 AM	12 Noon	4.00 PM			8.00 AM	12 Noon	4.00 PM	8.00 AM	12 Noon	4.00 PM
Yamuna at Naini Bridge (U/s Sangam)	8.5	15	565	9.9	9.5	9.2	9.2	47.2	1.8	2.2x10 ⁴	1.4x10 ⁴	1.4x10 ⁴	9.0x10 ³	7.0x10 ³	5.0x10 ³
Ganga at Shstri Bridge (U/s sangam)	8.8	35	375	40.8	10.5	11.6	12.4	28.7	5.9	3.0x10 ⁴	2.2x10 ⁴	2.4x10 ⁴	1.1x10 ⁴	9.0x10 ³	8.0x10 ³
Sangam	8.6	25	440	25.8	10.1	10.2	9.8	32.4	5.2	8.0x10 ³	1.3x10 ⁴	1.4x10 ⁴	5.0x10 ³	5.0x10 ³	7.0x10 ³
Yamuna at Karellabagh	8.4	15	559	12.9	9.4	9.6	8.9	49.1	1.9	2.4x10 ⁴	1.7x10 ⁴	1.7x10 ⁴	2.7x10 ³	8.0x10 ³	7.0x10 ³
Ganga at Phaphamau u/s Sangam	8.9	35	557	36.5	11.0	12.0	12.0	20.4	5	5.0x10 ³	8.0x10 ³	9.0x10 ³	5.0x10 ³	2.7x10 ³	3.0x10 ³
Ganga	8.	20	490	21.	9.2	10.	11.1	39.	5	1.3x	3.0x	2.6x	8.0x	1.3x	1.3x

at Diha Ghat d/s Allahab ad	5			3		7		8		10 ⁴	10 ⁴	10 ⁴	10 ³	10 ⁴	10 ⁴
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13.01.2007

Location	pH	Colour (hazen)	Cond (µs/cm)	COD (mg/l)	DO (mg/l)	Cl (mg/l)	BOD (mg/l)	TC MNP/ 100ml	FC MNP/ 100ml
Yamuna at Naini Bridge (U/s Sangam)	8.3	15	580	12	8.9	53	2.5	1.1x10 ⁴	5.0x10 ³
Ganga at Shstri Bridge (U/s sangam)	8.7	35	385	31	11.4	19	5.0	9.0x10 ³	5.0x10 ³
Sangam	8.6	20	527	18	9.6	38	4.1	7.0x10 ³	2.3x10 ³

12.01.2007

Location	pH	Colour (hazen)	Cond (µs/cm)	COD (mg/l)	DO (mg/l)	Cl (mg/l)	BOD (mg/l)	TC MNP/ 100ml	FC MNP/ 100ml
Yamuna at Naini Bridge (U/s Sangam)	8.3	15	555	11	9	53	1.8	5.0x10 ³	-
Ganga at Shstri Bridge (U/s sangam)	8.7	40	390	31	11.2	19	5.8	2.3x10 ³	-
Sangam	8.4	20	516	16	9.6	42	3.5	3.0x10 ³	-

11.01.2007

S. No.	Location	pH	Colour (hazen)	Cond (µs/cm)	COD (mg/l)	DO (mg/l)	CL (mg/l)	BOD (mg/l)	TC MNP /100ml	FC MNP /100ml
1.	Yamuna at Naini Bridge (U/s Sangam)	8.5	15	565	12	8.6	51	1.0	8.0x10 ³	5.0x10 ³

2.	Ganga at Shastri Bridge (U/s Sangam)	8.9	40	426	35	11.2	22	5.6	7.0x10 ³	5.0x10 ³
3.	Sangam	8.8	25	523	17	8.9	40	3.2	5.0x10 ³	2.2x10 ³

10.01.2007

S. No.	Location	pH	Colour (hazen)	Cond (µs/cm)	COD (mg/l)	DO (mg/l)	CL (mg/l)	BOD (mg/l)	TC MNP /100ml	FC MNP /100ml
1.	Yamuna at Naini Bridge (U/s Sangam)	8.2	15	530	12	9.4	49	1.8	2.6x10 ⁴	1.7x10 ⁴
2.	Ganga at Shastri Bridge (U/s Sangam)	8.7	40	412	34	11.6	20	5.2	2.2x10 ⁴	1.3x10 ⁴
3.	Sangam	8.6	25	480	18	10.2	39	3.2	1.1x10 ⁴	7.0x10 ³

09.01.2007

S. No.	Location	pH	Colour (hazen)	Cond (µs/cm)	COD (mg/l)	DO (mg/l)	CL (mg/l)	BOD (mg/l)	TC MNP /100ml	FC MNP /100ml
1.	Yamuna at Naini Bridge (U/s Sangam)	8.5	15	516	12	9.2	51	1.6	9.0x10 ⁴	5.0x10 ⁴
2.	Ganga at Shastri Bridge (U/s Sangam)	8.9	40	420	36	10.7	19	5.2	1.1x10 ⁴	7.0x10 ³
3.	Sangam	8.8	25	460	26	8.9	30	4.0	1.3x10 ⁴	3.4x10 ³

08.01.2007

S. No.	Location	pH	Colour (hazen)	Cond (µs/cm)	COD (mg/l)	DO (mg/l)	CL (mg/l)	BOD (mg/l)	TC MNP /100ml	FC MNP /100ml
1.	Yamuna at Naini Bridge (U/s Sangam)	8.3	15	534	12	9.4	49	1.5	5.0x10 ⁴	1.7x10 ⁴
2.	Ganga at Shastri	8.8	40	420	37	11.9	19	5.4	1.1x10 ⁴	5.0x10 ³

	Bridge (U/s Sangam)									
3.	Sangam	8.7	35	470	24	10.1	32	3.7	1.7×10^3	8.0×10^2

07.01.2007

S. No.	Location	pH	Colour (hazen)	Cond ($\mu\text{s/cm}$)	COD (mg/l)	DO (mg/l)	CL (mg/l)	BOD (mg/l)	TC MNP /100ml	FC MNP /100ml
1.	Yamuna at Naini Bridge (U/s Sangam)	8.2	15	530	12	8.1	48	2.9	5.0×10^4	2.2×10^4
2.	Ganga at Shastri Bridge (U/s Sangam)	8.9	40	398	38	9	22	5.1	2.2×10^4	1.7×10^4
3.	Sangam	8.7	35	444	29	9.6	30	4.9	8.0×10^3	8.0×10^3