

Water Quality of River Gomti in UP Year 2022

S.N.	p.	Month	SAMPLING POINT																																		
			1						2					3					4					5					6								
			Dadhnamau Ghat, Sitapur						Manjhighat, Lucknow					U/s Water Intake, Gaughat, Lucknow					Kudiyaghat, Lucknow					D/s Mohan Meakins, Lucknow					Nishatganj Bridge, Lucknow								
pH	D.O. (mg/l)	B.O.D. (mg/l)	C.O.D. (mg/l)	Total Coliform (MPN/100ml)	Faecal Coliform (MPN/100ml)	pH	D.O. (mg/l)	B.O.D. (mg/l)	C.O.D. (mg/l)	Total Coliform (MPN/100ml)	Faecal Coliform (MPN/100ml)	pH	D.O. (mg/l)	B.O.D. (mg/l)	C.O.D. (mg/l)	Total Coliform (MPN/100ml)	Faecal Coliform (MPN/100ml)	pH	D.O. (mg/l)	B.O.D. (mg/l)	C.O.D. (mg/l)	Total Coliform (MPN/100ml)	Faecal Coliform (MPN/100ml)	pH	D.O. (mg/l)	B.O.D. (mg/l)	C.O.D. (mg/l)	Total Coliform (MPN/100ml)	Faecal Coliform (MPN/100ml)	pH	D.O. (mg/l)	B.O.D. (mg/l)	C.O.D. (mg/l)	Total Coliform (MPN/100ml)	Faecal Coliform (MPN/100ml)		
1	January	-	11.8	2.1	8.0	1700	680	-	10.6	2.5	10.4	2700	1700	-	10.2	3.0	12.8	4600	3300	-	5.3	6.2	25.6	49000	33000	-	3.9	7.0	29.2	79000	49000	-	2.6	8.6	34.0	94000	70000
2	February	-	12.4	2.0	8.4	1400	450	-	11.0	2.4	10.0	2600	1300	-	10.3	2.8	12.4	4000	2100	-	2.8	7.5	29.6	70000	46000	-	2.5	8.0	32.4	94000	70000	-	1.7	9.5	37.2	110000	79000
3	March	8.39	10.2	2.2	8.8	1700	680	8.42	9.4	2.6	11.6	2600	1100	8.48	9.0	3.0	14.8	4600	3300	7.83	3.2	8.0	33.2	68000	45000	7.78	2.8	9.0	38.0	79000	49000	7.70	2.2	10.5	45.6	94000	70000
4	April	8.43	7.8	2.4	9.6	2000	780	8.45	7.1	2.7	12.4	3300	1700	8.39	6.7	3.2	15.6	6800	4900	7.78	2.2	9.5	39.2	110000	79000	7.73	2.0	10.4	42.8	140000	94000	7.65	1.6	12.0	49.6	200000	140000
5	May	8.29	7.2	2.5	10.4	2200	780	8.18	6.3	3.0	13.6	4000	2000	8.04	5.5	3.6	16.8	7900	4900	7.46	1.8	10.2	42.4	140000	94000	7.41	1.6	11.0	46.4	170000	110000	7.32	1.3	12.4	53.2	220000	170000
6	June	8.24	6.1	2.6	10.8	2400	1100	8.21	6.5	3.3	14.8	4900	2300	8.10	5.8	3.8	18.4	9400	4900	7.58	3.1	9.0	38.8	120000	68000	7.54	2.8	9.8	41.2	140000	79000	7.78	3.6	11.2	46.8	170000	10000
7	July	8.15	6.8	2.5	10.0	2100	780	7.92	5.7	3.6	17.2	4700	2700	7.89	5.3	4.0	19.6	9200	4500	7.56	2.1	10.0	41.2	110000	79000	7.53	1.9	10.6	44.4	130000	79000	7.42	1.6	12.0	49.6	220000	110000
8	August	7.98	7.0	2.6	10.4	2000	780	7.74	5.4	3.4	15.6	4600	2300	7.58	4.6	3.9	18.8	7900	3300	7.21	1.6	10.5	42.8	94000	70000	7.16	1.9	11.0	45.2	110000	79000	7.12	2.4	12.2	50.4	200000	110000
9	September	8.09	7.8	2.5	10.0	2100	780	7.92	6.7	3.2	14.8	4900	2300	7.84	5.8	3.6	17.2	7000	4900	7.37	2.4	9.0	37.6	70000	46000	7.33	2.2	9.6	41.2	79000	49000	7.30	1.9	11.2	48.4	120000	68000
10	October	7.91	6.8	2.4	9.6	1700	680	7.67	5.7	3.1	14.4	4000	2100	7.55	5.2	3.5	16.8	6100	4000	7.43	3.5	7.6	33.2	54000	35000	7.38	3.1	8.2	36.8	70000	46000	7.33	2.6	9.5	41.6	94000	70000
11	November	8.14	8.2	2.5	9.6	2000	780	7.72	6.6	3.0	13.6	4600	2300	7.68	5.9	3.3	16.0	6800	4000	7.57	4.1	7.4	32.8	68000	45000	7.51	3.6	8.0	35.6	79000	49000	7.46	2.9	9.2	39.6	110000	70000
12	December	8.40	10.3	2.3	9.2	1700	680	8.23	9.1	2.8	12.4	4500	2000	8.17	8.6	3.1	15.2	5400	2400	7.82	4.3	7.2	31.6	54000	35000	7.69	3.5	8.0	35.2	68000	40000	7.58	2.5	9.5	42.0	92000	54000
Average		8.20	8.5	2.4	9.6	1917	746	8.05	7.5	3.0	13.4	3950	1983	7.97	6.9	3.4	16.2	6658	3875	7.56	3.0	8.5	35.7	83917	56250	7.51	2.7	9.2	39.0	103167	66083	7.47	2.2	10.7	44.8	143667	85083
Category		C						C						D						E						E											

Class of water		A	B	C	D	E	Below E
1	Dissolved oxygen (mg/l), min	6.0	5.0	4.0	4.0	-	-
2	Biochemical oxygen demand (mg/l), max	2.0	3.0	3.0	-	-	-
3	Total Coliform (MPN/100ml), max	50	500	5000	-	-	-

A = Drinking water source without conventional treatment but after disinfection

B = Outdoor bathing (organised)

C = Drinking water source after conventional treatment and disinfection

D = Propagation of wild life and fisheries.

E = Irrigation, Industrial cooling, controlled waste disposal

Below - E = Not meeting A,B,C,D & E criteria

Source: http://www.zpcb.aic/Water_Quality_Criteria.php

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(S.D.)

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Vijay D. Singh
(A.S.C.)

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Water Quality of River Gomti in UP Year 2022

S.N o.	Month	SAMPLING POINT																													
		7					8					9					10					11									
		U/s Bairaj, Lucknow					D/s Pipraghat, Lucknow					D/s After meeting of STP, Nala Bharwara, Lucknow					D/s Gomti, Jaunpur					Gomti before meeting river Ganga, Rajwari, Varanasi									
pH	D.O. (mg/l)	B.O.D. (mg/l)	C.O.D. (mg/l)	Total Coliform (MPN/100ml)	Fecal Coliform (MPN/100ml)	pH	D.O. (mg/l)	B.O.D. (mg/l)	C.O.D. (mg/l)	Total Coliform (MPN/100ml)	Fecal Coliform (MPN/100ml)	pH	D.O. (mg/l)	B.O.D. (mg/l)	C.O.D. (mg/l)	Total Coliform (MPN/100ml)	Fecal Coliform (MPN/100ml)	pH	D.O. (mg/l)	B.O.D. (mg/l)	C.O.D. (mg/l)	Total Coliform (MPN/100ml)	Fecal Coliform (MPN/100ml)	pH	D.O. (mg/l)	B.O.D. (mg/l)	C.O.D. (mg/l)	Total Coliform (MPN/100ml)	Fecal Coliform (MPN/100ml)		
1.	January	-	2.3	9.2	37.2	130000	79000	-	1.6	10.8	45.2	170000	130000	-	1.2	12.5	49.6	260000	130000	-	7.9	3.7	14.2	21000	11000	-	8.2	3.5	12.0	11000	7000
2.	February	-	1.5	10.0	41.6	140000	94000	-	1.3	11.0	46.0	220000	110000	-	1.0	13.0	53.6	280000	130000	-	7.5	4.0	15.2	17000	13000	-	8.0	3.7	13.2	9000	5000
3.	March	7.67	1.9	11	47.4	130000	79000	7.63	1.5	12.0	51.6	220000	130000	7.58	0.8	14.5	61.6	260000	130000	8.27	7.4	3.8	14.8	22000	11000	8.32	7.8	3.5	12.8	11000	7000
4.	April	7.62	1.4	12.6	53.2	240000	170000	7.48	1.1	13.4	55.6	280000	170000	7.56	0.6	15.0	62.4	350000	220000	8.65	7.8	3.6	12.8	21000	11000	8.45	8.0	3.3	11.2	9400	4900
5.	May	7.25	1.2	12.8	56.8	260000	170000	7.21	1.6	14.6	58.8	260000	170000	7.18	0.5	16.0	65.6	390000	260000	8.60	7.5	3.8	13.2	17000	11000	8.42	7.8	3.4	11.6	9000	5000
6.	June	7.91	4.8	11.6	49.2	200000	140000	7.32	1.9	13.0	57.6	220000	110000	7.72	2.4	13.5	57.6	280000	170000	8.56	7.3	4.0	13.6	21000	11000	8.45	7.6	3.5	11.2	7900	4900
7.	July	7.39	1.5	12.8	52.8	240000	130000	7.44	1.4	13.2	56.4	280000	170000	7.28	1.0	14.5	61.2	350000	220000	8.59	7.5	3.8	13.2	17000	8000	8.47	7.8	3.3	10.8	7000	4000
8.	August	7.10	2.1	12.6	52.8	220000	140000	7.12	1.6	13.5	57.6	260000	170000	7.14	1.3	14.8	63.2	320000	210000	8.46	6.8	4.2	15.6	21000	11000	8.38	7.0	3.5	11.2	9200	4500
9.	September	7.26	1.8	11.5	50.8	140000	79000	7.08	1.5	12.6	52.4	170000	110000	7.31	1.2	13.4	58.4	240000	130000	8.32	6.5	4.3	16.0	24000	17000	8.25	6.8	3.7	12.4	11000	7000
10.	October	7.29	2.3	10.0	45.2	110000	79000	7.23	1.8	11.0	49.2	140000	79000	7.20	1.8	12.2	53.6	200000	140000	8.38	6.9	4.1	14.4	20000	12000	8.32	7.2	3.5	13.2	9300	6100
11.	November	7.43	2.6	9.8	44.4	130000	79000	7.34	2.1	10.6	49.6	160000	92000	7.29	1.8	11.6	53.2	260000	130000	8.42	7.2	3.8	13.6	17000	11000	8.37	7.6	3.3	12.4	8400	4600
12.	December	7.52	2.3	10.0	45.6	110000	70000	7.45	1.9	11.4	54.8	130000	79000	7.36	1.2	12.5	56.4	230000	130000	8.45	7.5	3.9	14.2	20000	13000	8.35	7.8	3.5	12.8	9100	6800
	Average	7.44	2.1	11.2	48.1	170833	109083	7.33	1.6	12.3	52.9	209167	126667	7.36	1.2	13.6	58.0	285000	166667	8.47	7.3	3.9	14.2	19833	11667	8.38	7.6	3.5	12.1	9275	5567
	Category	E					E					E					D					D									

Class of water	A	B	C	D	E	Below E
1 Dissolved oxygen (mg/l), min	6.0	5.0	4.0	4.0	-	-
2 Biochemical oxygen demand (mg/l), max	2.0	3.0	3.0	-	-	-
3 Total Coliform (MPN/100ml), max	50	500	5000	-	-	-

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