

**Water Quality of River Gomti in UP
Year 2023**

S. No.	Month	SAMPLING POINT																																			
		1						2						3						4						5						6					
		Dadhnamau Ghat, Sitapur						Manjhigat, 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)	Feacal Coliform (MPN/100ml)	pH	D.O. (mg/l)	B.O.D. (mg/l)	C.O.D. (mg/l)	Total Coliform (MPN/100ml)	Feacal Coliform (MPN/100ml)	pH	D.O. (mg/l)	B.O.D. (mg/l)	C.O.D. (mg/l)	Total Coliform (MPN/100ml)	Feacal Coliform (MPN/100ml)	pH	D.O. (mg/l)	B.O.D. (mg/l)	C.O.D. (mg/l)	Total Coliform (MPN/100ml)	Feacal Coliform (MPN/100ml)	pH	D.O. (mg/l)	B.O.D. (mg/l)	C.O.D. (mg/l)	Total Coliform (MPN/100ml)	Feacal Coliform (MPN/100ml)	pH	D.O. (mg/l)	B.O.D. (mg/l)	C.O.D. (mg/l)	Total Coliform (MPN/100ml)	Feacal Coliform (MPN/100ml)		
1- January	8.46	12.2	2.0	8.4	1400	450	8.39	10.9	2.6	11.6	3900	2100	8.31	10.3	3.0	14.8	4700	2600	7.97	5.7	6.8	29.2	40000	27000	7.89	4.8	7.5	33.6	49000	23000	7.77	3.5	9.0	39.6	79000	33000	
2- February	8.48	11.0	2.2	9.2	1700	680	8.43	10.1	2.7	12.0	4000	2000	8.36	9.6	3.2	15.6	4900	2300	7.51	2.4	8.0	35.6	54000	35000	7.46	2.1	8.6	38.4	79000	49000	7.40	1.6	10.2	45.2	94000	70000	
3- March	8.47	8.6	2.4	10.0	2000	780	8.45	7.5	2.9	13.2	4500	2000	8.41	6.9	3.3	16.0	5400	2400	7.56	2.1	8.8	38.0	70000	33000	7.52	1.9	9.5	41.2	92000	68000	7.41	1.5	11.0	49.6	110000	78000	
4- April	8.40	7.8	2.5	10.4	2200	930	8.42	7.3	2.8	13.6	4600	2300	8.33	6.8	3.3	16.4	6100	4000	7.58	2.6	8.5	36.8	79000	49000	7.49	2.3	9.0	39.6	110000	78000	7.52	2.0	10.6	47.2	130000	79000	
5- May	8.38	7.2	2.4	10.4	2400	1100	8.40	6.7	2.9	14.4	5400	2400	8.31	5.9	3.5	17.6	6800	4000	7.64	1.8	9.2	38.8	93000	68000	7.58	1.5	10.0	43.2	120000	68000	7.49	1.9	11.4	49.6	140000	79000	
6 June	8.40	6.9	2.5	11.2	2600	1300	8.36	6.2	3.0	15.6	4900	3300	8.27	4.6	3.8	18.8	7000	4900	7.61	0.9	10.5	45.6	94000	70000	7.65	0.7	11.0	47.2	140000	94000	7.69	1.6	12.2	53.6	170000	110000	
7 July	8.16	6.5	2.6	12.0	2400	1100	7.89	5.4	3.2	16.0	4500	2000	7.78	4.3	4.0	19.6	6800	4000	7.51	2.4	7.6	33.2	79000	49000	7.42	2.1	8.4	36.6	94000	49000	7.49	1.9	10.0	42.8	130000	78000	
8 August	7.97	6.8	2.5	11.6	2700	1400	7.67	5.8	3.1	14.8	5400	2400	7.52	4.9	3.8	18.4	7000	3300	7.32	2.8	7.4	32.4	92000	45000	7.27	2.5	8.0	34.0	120000	68000	7.19	2.0	9.5	41.2	140000	79000	
9 September	7.86	6.4	2.6	12.0	2800	1300	7.35	5.6	3.3	16.4	6100	4000	7.28	4.5	4.0	19.2	7800	4500	7.16	2.9	8.0	35.6	79000	49000	7.13	2.7	8.6	38.4	110000	78000	7.09	2.4	10.0	44.8	160000	92000	
10 October	7.83	6.9	2.5	11.6	2600	1300	7.61	6.2	3.1	14.8	5400	3500	7.46	4.9	3.7	17.6	6800	4000	7.32	3.6	7.5	25.8	70000	43000	7.28	3.2	8.2	36.4	92000	54000	7.22	2.8	9.6	41.2	130000	68000	
11 November	7.95	8.2	2.4	10.8	2400	1200	7.82	7.6	3.0	14.4	4900	2300	7.68	6.5	3.5	16.8	6100	4000	7.49	3.9	7.2	31.6	54000	35000	7.45	3.4	7.8	34.8	78000	45000	7.37	2.8	9.2	39.6	94000	49000	
12 December	8.12	9.5	2.2	9.6	2100	1100	7.96	8.3	3.0	13.6	4600	2300	7.82	7.4	3.3	16.0	5400	3500	7.58	3.4	7.5	33.2	61000	40000	7.52	2.9	8.2	37.6	79000	49000	7.41	2.2	10.0	43.2	92000	54000	
Average	8.21	8.2	2.4	10.6	2275	1053	8.06	7.3	3.0	14.2	4850	2550	7.96	6.4	3.5	17.2	6233	3625	7.52	2.9	8.1	34.7	72083	45250	7.47	2.5	8.7	38.4	96917	60250	7.42	2.2	10.2	44.8	122417	72417	
Category	C						C						D						E						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.cpcb.nic.in/Water_Quality_Criteria.php

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**Water Quality of River Gomti in UP
Year 2023**

S. No.	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)	Feacal Coliform (MPN/100ml)	pH	D.O. (mg/l)	B.O.D. (mg/l)	C.O.D. (mg/l)	Total Coliform (MPN/100ml)	Feacal Coliform (MPN/100ml)	pH	D.O. (mg/l)	B.O.D. (mg/l)	C.O.D. (mg/l)	Total Coliform (MPN/100ml)	Feacal Coliform (MPN/100ml)	pH	D.O. (mg/l)	B.O.D. (mg/l)	C.O.D. (mg/l)	Total Coliform (MPN/100ml)	Feacal Coliform (MPN/100ml)	pH	D.O. (mg/l)	B.O.D. (mg/l)	C.O.D. (mg/l)	Total Coliform (MPN/100ml)	Feacal Coliform (MPN/100ml)		
1- January	7.74	3.1	9.4	42.4	92000	54000	7.65	2.5	10.5	46.4	110000	70000	7.58	2.2	11.8	50.8	200000	140000	8.48	7.7	3.7	13.8	21000	14000	8.38	8.0	3.4	12.4	11000	6800	
2- February	7.37	1.5	10.5	47.6	110000	79000	7.30	1.5	12.0	52.6	140000	94000	7.28	0.8	13.0	57.2	260000	170000	8.44	8.0	4.0	15.2	17000	11000	8.35	8.6	3.3	12.8	9200	6800	
3- March	7.38	1.3	11.6	52.4	130000	79000	7.36	0.9	12.6	56.0	160000	92000	7.30	0.6	13.5	59.6	280000	170000	8.42	7.8	4.1	15.6	20000	11000	8.32	8.3	3.5	13.6	11000	7000	
4- April	7.55	1.8	11.0	50.2	140000	92000	7.49	1.5	12.0	53.6	170000	110000	7.46	1.0	13.2	57.2	320000	170000	8.39	7.6	4.2	16.4	21000	13000	8.29	7.8	3.6	13.8	9400	6300	
5- May	7.56	2.3	12.0	52.4	160000	92000	7.52	1.8	13.0	56.8	210000	140000	7.64	2.0	13.8	59.6	350000	220000	8.45	7.5	4.1	16.4	20000	13000	8.32	7.7	3.5	13.2	11000	6800	
6- June	7.74	2.4	12.5	56.0	200000	140000	7.79	2.0	13.8	60.8	240000	170000	7.81	1.8	14.6	62.4	330000	230000	8.41	7.3	4.2	16.8	21000	13000	8.28	7.5	3.7	13.6	13000	7000	
7 July	7.54	1.8	10.6	45.2	160000	92000	7.56	1.6	11.0	48.8	170000	110000	7.60	2.0	12.5	54.4	260000	130000	8.22	7.1	4.3	16.2	17000	11000	8.24	7.3	3.8	13.4	11000	7900	
8 August	7.16	1.8	10.0	43.6	160000	92000	7.08	1.5	11.2	47.2	200000	110000	7.10	1.2	12.8	53.2	280000	140000	7.95	7.0	4.3	16.4	20000	11000	8.05	7.2	4.0	13.8	13000	9300	
9 September	7.07	2.2	10.4	46.4	170000	94000	7.03	1.6	11.8	50.4	230000	130000	7.14	1.5	12.4	52.8	320000	170000	7.81	7.1	4.1	15.4	17000	11000	7.92	7.3	3.8	13.2	11000	7000	
10 October	7.25	2.5	10.0	44.0	140000	79000	7.22	2.1	11.4	49.2	170000	94000	7.20	1.8	12.5	51.2	280000	140000	7.85	7.3	3.7	13.8	11000	4900	7.96	7.5	3.2	12.4	8400	4600	
11 November	7.34	2.6	9.8	42.4	110000	70000	7.26	1.8	11.6	51.6	160000	92000	7.26	1.6	13.0	52.4	260000	130000	7.98	7.8	3.3	12.8	9400	4500	8.08	8.0	3.0	11.6	7900	3500	
12 December	7.37	2.0	10.4	45.6	120000	68000	7.35	1.6	11.5	52.0	140000	79000	7.23	1.2	12.8	53.2	220000	130000	8.10	7.9	3.2	12.6	8400	3300	8.18	8.1	3.0	11.4	7000	3100	
Average	7.42	2.1	10.7	47.4	141000	85917	7.38	1.7	11.9	52.1	175000	107583	7.38	1.5	13.0	55.3	280000	161667	8.21	7.5	3.9	15.1	16900	10058	8.20	7.8	3.5	12.9	10242	6342	
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	-	-	-

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.

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