

Water Quality Of River Ganga in UP Year-2022

Month	S A M P L I N G L O C A T I O N																																									
	1 U/s Kannauj						2 D/s Kannauj						3 Bithoor Kanpur						4 At Bhairav Ghat (Bathing Ghat), Kanpur						5 U/s Kanpur						6 At D/s Shuklaganj, Kanpur						7 At Gola Ghat (Bathing Ghat), Kanpur					
	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)						
Jan-22	10.9	3.2	11.6	2400	1200	11.1	3.4	12.4	3100	1300	11.2	3.1	11.2	3200	1300	9.1	3.3	12.0	3300	1400	10.4	3.4	11.2	3800	2000	10.0	3.6	11.6	4100	2100	9.9	4.3	12.4	4600	2800							
Feb-22	10.4	3.0	11.2	2000	920	10.2	3.2	11.6	2600	1300	10.5	3.1	11.6	3100	1300	9.5	3.1	11.6	3300	1300	10.4	3.4	11.2	3200	1100	10.4	3.3	13.6	3900	1700	10.6	3.9	11.6	4000	2100							
Mar-22	8.42	10.4	3.1	11.6	2300	1300	8.38	10.2	3.4	12.4	3100	1700	8.48	9.9	3.0	11.2	3200	1700	8.45	9.8	3.3	11.6	3300	1300	8.42	9.9	3.2	12.4	3400	1800	8.40	9.7	3.4	13.2	4100	2000						
Apr-22	8.32	9.6	3.0	10.8	2600	1200	8.28	9.4	3.2	12.4	3100	2100	8.43	9.8	3.1	12.8	3800	1700	8.41	8.6	3.3	13.6	4000	1700	8.50	8.5	3.6	13.2	3800	2200	8.31	8.3	3.9	14.0	4300	2300						
May-22	8.35	7.8	3.5	12.0	3900	2100	8.29	7.5	3.9	12.8	4100	2200	8.51	7.8	4.0	12.4	4800	3300	8.48	7.6	4.2	12.4	4300	2300	8.45	7.7	4.1	13.6	5800	3100	8.38	7.5	4.5	13.6	4800	2700						
Jun-22	8.36	7.8	4.0	16.6	2800	1700	8.30	7.6	4.4	28.4	4300	2600	8.50	7.5	5.4	12.4	4100	2700	8.48	7.3	5.1	12.8	4100	2200	8.45	7.2	4.9	13.2	4000	2600	8.42	6.9	5.2	13.6	4600	2500						
Jul-22	8.43	7.1	4.3	13.2	3900	1700	8.31	7.5	3.8	13.6	4600	2000	8.51	8.0	3.7	12.0	4100	2200	8.47	7.8	3.8	12.4	4100	2700	8.45	7.9	4.0	13.2	3900	2200	8.42	7.7	4.2	13.6	4100	2600						
Aug-22	8.45	7.4	3.8	12.4	3800	1500	7.38	7.2	4.0	12.8	4300	1700	7.98	7.8	3.5	12.6	3800	2000	7.83	7.6	4.2	12.4	3800	2600	8.32	7.7	4.4	12.4	3400	1700	8.25	7.6	4.5	12.8	3800	2100						
Sep-22	8.20	6.9	3.3	11.8	4100	2500	8.12	6.8	3.7	12.8	4900	3300	8.28	7.8	3.8	11.6	5800	2500	8.16	7.6	4.2	12.6	4300	3100	8.21	7.8	3.6	12.0	3800	2500	8.17	7.7	3.7	12.4	4800	2600						
Oct-22	8.15	7.6	3.7	12.0	4300	3100	8.10	7.2	3.8	12.8	4900	3700	8.20	8.1	3.9	12.0	6300	4000	8.15	8.0	4.1	13.2	4600	3100	8.20	7.8	4.2	12.4	4000	2600	8.13	7.6	4.3	12.8	4900	3300						
Nov-22	8.47	7.6	3.7	11.6	2700	1700	8.31	7.5	3.8	12.4	3800	2500	8.37	7.7	3.6	12.0	4000	2700	8.34	7.4	3.9	12.8	4100	2500	8.42	7.6	4.0	13.2	3300	2700	8.44	7.5	4.2	14.4	4600	3100						
Dec-22	8.48	9.6	3.4	12.0	*	* 8.35	9.3	3.5	13.2	*	* 8.48	9.8	3.4	11.1	*	* 8.42	9.6	3.6	12.0	*	* 8.38	9.7	3.9	13.6	*	* 8.58	9.5	4.0	14.0	*	* 8.64	9.3	4.2	15.6	*	*						
Average	8.36	8.59	3.5	12.2	3164	1720	8.18	8.46	3.7	14.0	3891	2218	8.37	8.83	3.6	11.9	4200	2309	8.32	8.33	3.84	12.5	3927	2209	8.38	8.57	3.88	12.7	3855	2227	8.35	8.37	4.07	13.30	4364	2455						
Category	D						D						D						D						D						D											

* Autoclave is not working.

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.epchalc.in/Water_Quality_Criteria.php

AK
(SA)

Verma Dushyant
(P.S.O)

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Water Quality Of River Ganga in UP Year-2022

Month	S A M P L I N G L O C A T I O N																																									
	8						9					10					11					12					13					14										
	At Jajmau Bridge (Bathing Ghat), Kanpur						D/S Kanpur					Dalmau, Raibareilly					Kala Kankar, Pratapgarh					Kada Ghat, Kaushambi					U/s Prayagraj (Rasoolabad Ghat)					D/s Prayagraj										
	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)						
Jan-22	9.3	4.5	13.2	5800	3400		9.0	4.7	14.08	11000	6800		10.5	3.6	18.0	2800	1800		10.9	3.5	17.60	2600	1700		9.0	2.8	8.0	2100	820		10.5	2.9	10.0	2100	830		9.2	2.7	10.0	2600	820	
Feb-22	9.6	4.1	14.4	5400	3200		9.4	4.3	14.4	7900	4100		10.6	3.5	18.08	2700	1700		10.9	3.4	17.92	2600	1600		9.1	2.7	8.00	1500	610		10.4	2.8	10.0	2000	780		9.2	2.6	12.0	2400	930	
Mar-22	8.34	9.4	3.7	14.8	4900	2600	8.29	9.1	3.9	15.6	7900	4000	8.17	9.70	4.3	17.6	2700	1700	8.21	9.9	4.2	17.6	2700	1700	8.29	8.3	2.8	10.0	2100	780	8.20	9.1	2.7	12.0	2200	680	8.31	8.6	2.7	12.0	2700	830
Apr-22	8.21	7.6	4.4	15.2	4700	2600	8.16	7.3	4.7	16.8	7900	3600	8.19	7.9	4.1	17.6	2700	1700	8.24	8.2	4.2	17.6	2700	1700	8.03	8.4	2.7	8.0	2100	680	8.31	8.8	2.8	10.0	2100	610	8.14	7.8	2.9	14.0	2700	780
May-22	8.31	7.1	4.8	15.6	6300	4300	8.26	7.1	5.0	16.4	7900	4000	8.15	7.3	4.0	17.6	2700	1700	8.20	7.5	3.9	17.6	2700	1700	8.17	8.7	2.9	8.0	2100	610	8.22	8.2	2.8	10.0	2200	680	8.32	8.1	2.8	14.0	2500	610
Jun-22	8.35	6.5	5.6	15.2	4800	3300	8.31	6.2	5.9	16.8	11000	4900	8.28	7.0	4.2	17.6	2700	1500	8.55	7.2	4.0	17.6	2700	1500	8.23	8.6	2.8	12.0	2000	680	8.17	8.3	2.8	12.0	2100	610	8.28	8.1	2.7	14.0	2400	680
Jul-22	8.30	7.3	4.5	14.4	4600	3400	8.29	7.2	4.8	14.8	15000	6300	8.31	7.2	4.0	17.92	2700	1700	8.30	7.3	4.2	17.6	2700	1700	8.28	8.2	2.7	10.0	1500	610	8.28	8.3	2.6	10.0	2400	680	8.11	8.0	3.0	12.0	2500	930
Aug-22	7.89	7.0	5.0	14.4	4300	3100	7.91	6.9	4.9	13.2	13000	5600	8.10	6.8	4.1	17.6	2600	1700	8.16	7.0	4.0	17.28	2700	1700	7.58	6.2	2.7	10.0	1500	610	7.39	7.3	2.7	12.0	1700	680	7.83	6.6	2.8	12.0	2500	910
Sep-22	8.12	7.2	4.3	15.2	4900	3300	8.08	6.9	4.5	13.6	17000	6300	8.11	7.3	4.0	17.4	2600	1700	8.09	7.4	4.0	17.60	2700	1700	7.19	6.9	2.8	8.0	1500	610	7.57	6.3	2.8	10.0	2000	680	7.54	6.2	2.8	12.0	2500	930
Oct-22	8.10	7.0	4.8	15.6	5400	3500	8.40	6.7	5.0	14.4	20000	13000	8.15	7.3	4.0	17.44	2200	1300	8.21	7.5	3.9	17.44	2100	1400	7.82	6.5	2.8	8.0	2000	680	7.85	7.6	2.7	12.0	1700	680	7.79	6.8	2.9	12.0	2600	920
Nov-22	8.29	7.3	4.6	14.4	4700	3400	8.42	7.1	4.8	16.0	13000	7800	7.70	8.0	3.1	17.12	2300	1300	7.77	8.0	3.0	17.12	2400	1700	8.03	7.4	2.7	12.0	1500	610	7.78	7.5	2.9	14.0	1600	610	7.56	6.9	2.8	12.0	2400	920
Dec-22	8.3	9.1	4.3	14.0	*	*	8.19	8.8	4.6	15.2	*	*	7.78	8.0	3.1	17.4	2400	1700	7.86	8.3	3.0	17.4	2300	1300	7.97	8.6	2.9	10.0	1700	450	7.95	8.8	2.8	11.0	1500	610	7.91	9.1	2.9	16.0	2400	920
Average	8.22	7.87	4.55	14.7	5073	3282	8.23	7.64	4.8	15.11	11964	6036	8.09	8.13	3.83	17.6	2592	1625	8.16	8.34	3.78	17.5	2575	1617	7.96	7.99	2.78	9.3	1800	646	7.97	8.43	2.78	11.0	1967	678	7.98	7.88	2.80	12.7	2517	848
Category	D						D					D					D					C					C					C										

* Autoclave is not working.

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

*Aut
(SA)*

*Vijay Dubey
(NISE)*

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Water Quality Of River Ganga in UP Year- 2022

Month	S A M P L I N G L O C A T I O N																																															
	15						16						17						18						19						20						21						22					
	a/c Tamsa river, Sirsa, Son Barsa						U/s Vindhyachal, Mirzapur						D/s Mirzapur						At Chunnar Pontoon Bridge						U/s Varanasi						D/s Varanasi						a/c Gomti river, Bhusuola						Tarighat D/s Ghazipur					
	pH	D.O. (mg/l)	B.O.D. (mg/l)	C.O.D. (mg/l)	Total Coliform (MPN/100ml)	FaecalColiform (MPN/100ml)	pH	D.O. (mg/l)	B.O.D. (mg/l)	C.O.D. (mg/l)	Total Coliform (MPN/100ml)	FaecalColiform (MPN/100ml)	pH	D.O. (mg/l)	B.O.D. (mg/l)	C.O.D. (mg/l)	Total Coliform (MPN/100ml)	FaecalColiform (MPN/100ml)	pH	D.O. (mg/l)	B.O.D. (mg/l)	C.O.D. (mg/l)	Total Coliform (MPN/100ml)	FaecalColiform (MPN/100ml)	pH	D.O. (mg/l)	B.O.D. (mg/l)	C.O.D. (mg/l)	Total Coliform (MPN/100ml)	FaecalColiform (MPN/100ml)	pH	D.O. (mg/l)	B.O.D. (mg/l)	C.O.D. (mg/l)	Total Coliform (MPN/100ml)	FaecalColiform (MPN/100ml)	pH	D.O. (mg/l)	B.O.D. (mg/l)	C.O.D. (mg/l)	Total Coliform (MPN/100ml)	FaecalColiform (MPN/100ml)	pH	D.O. (mg/l)	B.O.D. (mg/l)	C.O.D. (mg/l)	Total Coliform (MPN/100ml)	FaecalColiform (MPN/100ml)
Jan-22	9.4	2.8	10.0	2000	610	10.8	2.2	7.6	1300	800	9.7	3.7	13.6	21000	11000	10.3	3.1	10.4	13000	8000	10.6	2.0	7.2	1400	800	9.8	3.4	13.2	17000	11000	10.2	2.8	10.4	14000	8000	9.6	3.8	14.4	22000	13000								
Feb-22	8.5	2.7	10.0	2100	780	10.6	2.5	9.2	2100	1300	9.8	3.6	14.8	21000	14000	10.2	3.1	10.8	11000	7000	10.0	2.4	8.0	1100	700	9.6	3.5	14.2	14000	8000	9.8	3.0	10.2	8000	5000	9.3	3.9	14.8	17000	8000								
Mar-22	8.17	8.7	2.7	8.0	1500	610	8.27	8.6	2.7	9.6	1700	1100	8.41	7.8	4.0	15.2	17000	11000	8.36	8.2	3.3	11.6	13000	8000	8.19	8.3	2.5	8.2	1400	900	8.04	7.5	3.7	13.6	17000	11000	8.12	7.8	3.2	11.2	13000	8000						
Apr-22	8.33	8.6	2.8	8.0	2000	600	8.42	8.3	2.7	9.2	1700	800	8.29	7.4	4.0	13.6	17000	11000	8.38	8.0	3.2	11.6	11000	5000	8.41	8.5	2.5	8.0	1400	800	8.29	7.4	3.8	13.6	17000	11000	8.45	8.3	3.2	9.6	11000	5000	7.72	7.3	4.0	15.2	21000	13000
May-22	8.38	8.3	2.8	10.0	1500	560	8.44	8.2	2.8	9.6	2100	1300	8.66	7.4	4.5	15.2	23000	13000	8.53	7.8	3.5	12.4	14000	9000	8.48	8.8	2.3	8.2	1300	800	8.25	7.6	3.7	13.8	14000	9000	8.37	8.2	3.3	11.2	11000	7000	8.54	7.0	4.2	15.6	17000	13000
Jun-22	8.33	8.4	2.8	10.0	2200	780	8.46	7.8	2.8	10.8	1700	1100	8.65	7.1	4.2	14.8	21000	14000	8.48	7.5	3.3	11.6	13000	7900	8.35	8.0	2.5	9.4	800	540	8.26	7.2	3.7	14.8	11000	8000	8.35	7.7	3.3	11.8	9000	5000	8.54	7.0	4.2	15.6	17000	13000
Jul-22	8.25	8.4	2.7	10.0	2100	680	8.52	8.3	2.5	9.2	1700	1100	8.64	7.4	3.8	13.6	17000	11000	8.58	8.0	3.3	11.6	11000	6800	8.51	8.1	2.5	9.6	1400	790	8.28	7.2	3.7	14.2	21000	14000	8.40	7.7	3.4	13.6	13000	8000	8.56	7.4	4.0	15.2	22000	14000
Aug-22	7.69	6.0	2.6	12.0	2000	680	7.92	7.0	2.7	9.2	2300	1300	7.78	6.4	4.1	14.4	22000	13000	7.85	6.7	3.3	10.8	13000	8000	8.31	7.1	2.7	9.6	2300	1300	8.21	6.7	4.3	15.8	22000	13000	8.28	7.0	3.6	14.6	17000	11000	8.20	6.4	4.4	16.2	23000	13000
Sep-22	7.72	7.6	2.7	14.0	1400	450	7.82	7.3	2.7	9.2	2100	1300	7.62	6.8	3.9	14.8	21000	13000	7.72	7.1	3.2	10.8	13000	6800	7.74	7.2	2.6	9.6	2200	1400	7.59	6.6	4.2	15.2	23000	17000	7.69	7.0	3.3	10.8	14000	9300	7.62	6.8	4.0	14.4	22000	14000
Oct-22	7.91	7.2	2.7	10.0	2200	780	7.83	7.1	2.8	9.4	1700	1100	7.71	6.4	4.3	15.8	22000	13000	7.76	6.8	3.4	12.2	13000	7800	7.85	7.6	2.4	8.8	1400	930	7.69	6.8	4.0	14.2	22000	14000	7.82	7.3	3.2	10.2	13000	9100	7.65	6.6	4.2	14.8	21000	13000
Nov-22	7.80	7.9	2.8	14.0	2000	680	7.96	8.0	2.4	8.4	1400	910	7.78	7.2	3.8	13.8	20000	12000	7.89	7.6	3.1	11.6	11000	6800	7.85	7.4	2.4	8.2	1300	920	7.69	6.6	4.2	14.4	21000	11000	7.82	7.3	3.2	10.6	11000	6800	7.62	6.7	4.1	15.8	20000	13000
Dec-22	7.85	8.9	2.8	8.0	2200	680	8.21	8.7	2.2	7.8	1300	920	7.89	7.8	3.8	13.8	17000	11000	8.08	8.3	3.3	11.4	13000	9200	8.19	8.5	2.3	7.8	1300	920	7.79	7.7	3.6	13.2	17000	11000	7.95	8.1	3.2	10.8	9200	6800	7.74	7.4	4.0	15.2	21000	13000
Average	8.04	8.16	2.74	10.3	1933	658	8.19	8.39	2.58	9.1	1758	1086	8.14	7.60	3.98	14.5	19917	12250	8.16	8.04	3.26	11.4	12417	7525	8.19	8.34	2.43	8.6	1442	900	8.01	7.56	3.82	14.2	18000	11500	8.13	8.03	3.23	11.25	11933	7417	8.03	7.46	4.03	15.0	20917	12750
Category	C						C						D						D						C						D						D											

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.epcb.ac.in/Water_Quality_Criteria.php

Ati
(CSA)

Vinay Dubey
(A.S.T.)

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