Water Quality of River Yamuna In UP
Year 2021

S.N.	Month	Sampling Point 1: U/S Okhla Barrage, Noida					2: D/S Village Gharbara/Tilwara, Noida					3: U/s Vrindavan					4: Kesi Ghat Vrindavan					5: D/s Vrindavan					6: U/s Mathura					7: Shahpur, Mathura				
		DO (mg/l)	BOD (mg/l)	C.O.D. (mg/l)	Total Coliform (MPN/100ml)	Fecal Coliform (MPN/100ml)	DO (mg/l)	BOD(mg/l)	C.O.D. (mg/l)	Total Coliform (MPN/100ml)	Fecal Coliform (MPN/100ml)	DO (mg/l)	BOD(mg/l)	C.O.D. (mg/l)	Total Coliform (MPN/100ml)	Feacal Coliform (MPN/100ml)	DO (mg/l)	BOD(mg/l)	C.O.D. (mg/l)	Total Coliform (MPN/100ml)	Feacal Coliform (MPN/100ml)	DO (mg/l)	BOD(mg/l)	C.O.D. (mg/l)	Total Coliform (MPN/100ml)	Feacal Coliform (MPN/100ml)	DO (mg/l)	BOD(mg/l)	C.O.D. (mg/l)	Total Coliform (MPN/100ml)	Feacal Coliform (MPN/100ml)	DO (mg/l)	BOD(mg/l)	C.O.D. (mg/l)	Total Coliform (MPN/100ml)	Feacal Coliform (MPN/100ml)
1	January	1.4	24.0	-	-	-	0.0	30.0	-	-	-	7.4	5.8	-	65000	28000	7.1	6.2	-	68000	31000	7.1	6.2	-	68000	31000	7.2	8.4	-	84000	53000	5.8	7.4	-	70000	33000
2	February	1.8	21.0	-	-	-	0.0	27.0	-	-	-	7.6	8.0	-	60000	25000	7.2	8.6	-	67000	28000	7.2	8.6	-	67000	28000	6.8	7.4	-	75000	39000	6.6	7.2	-	63000	27000
3	March	0.0	24.0	-	-	-	0.0	33.0	-	-	-	7.4	8.8	-	63000	37000	7.0	9.0	-	70000	38000	7.0	9.0	-	70000	38000	6.2	8.0	-	80000	41000	5.8	8.6	-	68000	37000
4	April	0.0	22.5	-	-	-	0.0	30.0	-	-	-	6.6	8.2	-	67000	41000	6.3	8.4	-	75000	44000	6.3	8.4	-	75000	44000	5.6	9.4	-	90000	46000	5.4	9.6	-	70000	39000
5	May	0.0	24.0	-	-	-	0.0	31.5	-	-	-	7.2	7.4	-	58000	34000	6.8	7.8	-	63000	31000	6.8	7.8	-	63000	31000	6.4	8.0	-	84000	53000	6.2	8.8	-	60000	34000
6	June	0.0	27.0	-	-	-	0.0	30.0	-	-	-	6.4	8.2	-	63000	39000	6.2	8.8	-	72000	41000	6.2	8.8	-	72000	41000	5.2	9.2	-	93000	57000	5.4	10.4	-	68000	39000
7	July	0.0	21.0	-	-	-	0.0	24.0	-	-	-	5.8	9.0	-	70000	41000	5.2	9.6	-	76000	43000	5.2	9.6	-	76000	43000	5.4	10.2	-	94000	58000	4.8	12.2	-	84000	46000
8	August	4.2	15.0	72.0	-	-	3.3	18.0	80.0	-	-	7.6	7.4	32.0	63000	34000	7.2	7.8	36.0	70000	39000	7.2	7.8	36.0	70000	39000	6.8	8.2	40.0	79000	41000	7.2	7.6	40.0	70000	41000
9	September	2.1	24.0	104.0	-	-	1.4	27.0	112.0	-	-	7.2	6.4	24.0	58000	21000	6.8	7.2	28.0	63000	22000	6.8	7.2	28.0	63000	22000	6.4	7.2	28.0	70000	27000	7.8	6.6	20.0	46000	17000
10	October	1.8	22.5	112.0	-	-	1.5	24.0	120.0	-	-	6.6	7.8	20.0	70000	27000	6.2	8.4	24.0	79000	31000	6.2	8.4	24.0	79000	31000	5.8	8.8	28.0	84000	32000	6.2	7.2	24.0	48000	20000
11	November	0.4	26.0	140.0	-	-	0.0	38.0	190.0	-	-	5.2	8.6	32.0	84000	31000	4.8	9.4	36.0	92000	34000	4.8	9.4	36.0	92000	34000	4.6	10.2	40.0	92000	33000	3.6	12.2	48.0	140000	79000
12	December	1.2	30.0	192.0	-	-	0.5	36.0	208.0	-	-	6.4	8.0	36.0	79000	27000	5.8	8.4	40.0	84000	33000	5.8	8.4	40.0	84000	33000	5.6	9.2	40.0	92000	31000	5.2	8.8	32.0	84000	31000
	Average	**1.1**	**23.4**	**124.0**	-	-	**0.6**	**29.0**	**142.0**	-	-	**6.8**	**7.8**	**28.8**	**66667**	**32083**	**6.4**	**8.3**	**32.8**	**73250**	**34583**	**6.4**	**8.3**	**32.8**	**73250**	**34583**	**6.0**	**8.7**	**35.2**	**84750**	**42583**	**5.8**	**8.9**	**32.8**	**72583**	**36917**
	Category	E					E					D					D					D					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.
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 Yamuna In UP
Year 2021

S.N.	Month	Sampling Point 8: Vishram Ghat, Mathura					9: D/s Mathura					10: U/s Kailashghat, Agra					11: U/s Waterworks, Agra					12: D/s Tajmahal, Agra					13: U/s Firozabad					14: D/s Firozabad				
		DO (mg/l)	BOD(mg/l)	C.O.D. (mg/l)	Total Coliform (MPN/100ml)	Fecal Coliform (MPN/100ml)	DO (mg/l)	BOD(mg/l)	C.O.D. (mg/l)	Total Coliform (MPN/100ml)	Fecal Coliform (MPN/100ml)	DO (mg/l)	BOD(mg/l)	C.O.D. (mg/l)	Total Coliform (MPN/100ml)	Fecal Coliform (MPN/100ml)	DO (mg/l)	BOD(mg/l)	C.O.D. (mg/l)	Total Coliform (MPN/100ml)	Fecal Coliform (MPN/100ml)	DO (mg/l)	BOD(mg/l)	C.O.D. (mg/l)	Total Coliform (MPN/100ml)	Fecal Coliform (MPN/100ml)	DO (mg/l)	BOD(mg/l)	C.O.D. (mg/l)	Total Coliform (MPN/100ml)	Fecal Coliform (MPN/100ml)	DO (mg/l)	BOD(mg/l)	C.O.D. (mg/l)	Total Coliform (MPN/100ml)	Fecal Coliform (MPN/100ml)
1	January	6.6	9.6	-	96000	79000	6.8	9.2	-	93000	77000	5.4	12.4	-	33000	16000	5.0	16.0	-	45000	22000	4.6	20.0	-	92000	35000	5.7	20.0	-	32000	18000	5.2	21.2	-	92000	28000
2	February	6.2	8.0	-	78000	41000	6.4	8.6	-	89000	46000	6.9	12.0	-	31000	11000	6.4	13.6	-	36000	15000	5.8	14.4	-	92000	31000	5.6	19.2	-	35000	20000	5.3	21.6	-	92000	30000
3	March	5.8	10.0	-	89000	53000	5.6	10.8	-	98000	57000	7.1	9.6	-	28000	13000	6.6	11.2	-	35000	20000	5.8	13.2	-	92000	30000	5.5	18.8	-	32000	18000	5.2	20.8	-	92000	28000
4	April	5.2	11.6	-	93000	58000	5.0	11.2	-	110000	72000	6.9	10.8	-	37000	15000	6.1	12.0	-	44000	21000	5.8	14.0	-	90000	31000	5.7	20.4	-	35000	20000	5.4	22.0	-	120000	32000
5	May	6.2	9.0	-	89000	54000	6.0	8.6	-	92000	57000	7.4	12.0	-	31000	13000	6.7	14.4	-	37000	15000	5.9	16.4	-	92000	28000	5.5	20.0	-	35000	20000	5.3	22.4	-	110000	32000
6	June	4.8	10.8	-	94000	58000	4.6	10.4	-	96000	63000	7.1	11.6	-	23000	9000	6.2	13.6	-	31000	12000	5.7	15.2	-	79000	26000	5.4	17.6	-	33000	20000	5.2	19.6	-	110000	31000
7	July	4.4	11.6	-	96000	63000	4.2	12.0	-	110000	70000	6.4	12.8	-	25000	11000	5.9	13.6	-	28000	12000	5.4	15.2	-	79000	28000	5.6	18.0	-	35000	20000	5.3	20.0	-	120000	31000
8	August	6.4	9.8	44.0	84000	47000	6.2	9.6	44.0	92000	48000	6.2	12.8	20.8	22000	11000	5.6	11.6	24.4	28000	13000	5.4	15.2	24.0	79000	31000	5.8	10.0	32.0	28000	13000	5.6	11.6	36.0	30000	17000
9	September	6.2	8.2	32.0	79000	31000	5.8	8.6	36.0	84000	33000	6.5	8.4	16.0	14000	7000	6.2	9.2	19.2	17000	9000	5.6	10.4	20.8	68000	15000	5.7	10.8	24.0	30000	14000	5.5	11.6	28.0	33000	17000
10	October	5.4	9.0	36.0	92000	33000	5.2	9.6	36.0	94000	38000	6.5	8.8	17.6	16000	9000	6.3	10.0	19.6	22000	15000	5.8	12.8	20.4	52000	28000	5.5	10.4	28.0	30000	13000	5.4	11.6	30.0	34000	17000
11	November	4.4	10.8	48.0	110000	43000	4.2	11.4	52.0	120000	46000	6.1	9.2	24.0	16000	9000	5.6	9.6	28.0	22000	15000	5.4	12.4	32.0	52000	28000	5.7	12.4	36.0	33000	11000	5.5	14.0	44.0	35000	14000
12	December	4.8	10.6	44.0	94000	33000	4.4	11.0	48.0	110000	39000	7.6	8.4	20.8	17000	8000	7.0	9.6	22.4	21000	14000	6.8	10.4	24.0	90000	40000	5.4	13.2	40.0	35000	13000	5.6	14.8	44.0	40000	17000
	Average	**5.5**	**9.9**	**40.8**	**91167**	**49417**	**5.4**	**10.1**	**43.2**	**99000**	**53833**	**6.7**	**10.7**	**19.8**	**24417**	**11000**	**6.1**	**12.0**	**22.7**	**30500**	**15250**	**5.7**	**14.1**	**24.2**	**79750**	**29250**	**5.6**	**15.9**	**32.0**	**32750**	**16667**	**5.4**	**17.6**	**36.4**	**75667**	**24500**
	Category	D					D					D					D					D					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)
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S.N.	Month	Sampling Point 15 U/s Etawah					16 D/s Etawah					17 U/s Water Intake, Allahabad				
		DO (mg/l)	BOD(mg/l)	C.O.D. (mg/l)	Total Coliform (MPN/100ml)	Fecal Coliform (MPN/100ml)	DO (mg/l)	BOD(mg/l)	C.O.D. (mg/l)	Total Coliform (MPN/100ml)	Fecal Coliform (MPN/100ml)	DO (mg/l)	BOD(mg/l)	C.O.D. (mg/l)	Total Coliform (MPN/100ml)	Fecal Coliform (MPN/100ml)
1	January	6.3	16.0	-	35000	20000	5.8	18.4	-	92000	30000	8.8	2.4	-	1300	490
2	February	5.7	16.8	-	35000	20000	5.3	20.8	-	92000	28000	8.9	2.5	-	1100	450
3	March	6.0	17.2	-	37000	22000	5.5	21.2	-	110000	31000	8.1	2.6	-	1400	450
4	April	5.9	20.0	-	37000	22000	5.6	22.4	-	110000	31000	7.8	2.6	-	1100	460
5	May	6.0	18.0	-	35000	21000	5.5	20.4	-	92000	28000	7.5	2.5	-	1300	490
6	June	5.8	17.2	-	33000	21000	5.6	19.2	-	92000	27000	7.7	2.2	-	1100	450
7	July	5.7	17.6	-	33000	22000	5.4	20.0	-	92000	28000	7.8	2.2	-	1200	560
8	August	5.7	9.6	24.0	22000	11000	5.4	10.8	28.0	28000	13000	7.9	2.3	8.0	1400	610
9	September	6.0	11.2	28.0	26000	14000	5.7	12.4	32.0	30000	17000	7.8	2.4	6.0	1100	450
10	October	5.7	9.2	30.0	28000	13000	5.5	11.2	36.0	35000	17000	7.9	2.3	6.0	1200	560
11	November	5.5	12.8	36.0	34000	14000	5.3	16.4	48.0	40000	21000	8.4	2.4	8.0	1100	400
12	December	6.1	12.8	34.0	35000	14000	5.7	15.6	44.0	50000	23000	8.8	2.2	6.0	1100	450
Average		**5.9**	**14.9**	**30.4**	**32500**	**17833**	**5.5**	**17.4**	**37.6**	**71917**	**24500**	**8.1**	**2.4**	**6.8**	**1200**	**485**
Category		D					D					C				

S.N.	Month	18 D/s Balua Ghat Praygraj					19 D/s Chhachhar nala, Prayagraj					20 D/s Emergency Outfall, Prayagraj				
		DO (mg/l)	BOD(mg/l)	C.O.D. (mg/l)	Total Coliform (MPN/100ml)	Fecal Coliform (MPN/100ml)	DO (mg/l)	BOD(mg/l)	C.O.D. (mg/l)	Total Coliform (MPN/100ml)	Fecal Coliform (MPN/100ml)	DO (mg/l)	BOD(mg/l)	C.O.D. (mg/l)	Total Coliform (MPN/100ml)	Fecal Coliform (MPN/100ml)
1	January	8.5	1.9	-	1400	780	8.6	2.6	-	1400	680	8.7	2.5	-	1500	700
2	February	8.5	2.6	-	1400	820	8.4	2.4	-	1300	680	8.2	2.6	-	1700	630
3	March	7.9	2.6	-	1700	930	7.8	2.7	-	1200	610	8.0	2.7	-	1300	600
4	April	7.2	2.5	-	1400	680	7.4	2.5	-	1300	790	7.2	2.8	-	1200	630
5	May	7.4	2.7	-	1500	700	7.3	2.7	-	1500	680	7.3	2.6	-	1400	780
6	June	7.4	2.7	-	1100	490	7.5	2.4	-	1400	680	7.7	2.5	-	1300	630
7	July	7.8	2.5	-	1700	610	7.6	2.5	-	1700	600	7.2	2.6	-	1400	610
8	August	7.7	2.6	8	1700	680	7.8	2.5	8.0	1700	680	7.8	2.5	10.0	1500	700
9	September	7.8	2.5	6.0	1700	600	7.7	2.6	8.0	1400	680	7.6	2.6	8.0	1400	610
10	October	7.6	2.6	8.0	1700	680	7.5	2.7	8.0	1700	680	7.6	2.8	6.0	1300	600
11	November	8.2	2.7	8.0	1300	450	8.0	2.8	10.0	1400	610	8.3	2.7	8.0	1400	560
12	December	8.5	2.7	6.0	1400	600	8.4	2.8	10.0	1400	610	8.6	2.7	8.0	1400	600
Average		**7.9**	**2.6**	**7.2**	**1500**	**668**	**7.8**	**2.6**	**8.8**	**1450**	**665**	**7.9**	**2.6**	**8.0**	**1400**	**646**
Category		C					C					C				

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
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