Water Quality of River Ganga In UP

Year 2013-2016

The **Ganga River** is a trans-boundary river of Asia which flows through the nations of India and Bangladesh. The 2,525 km river rises in the western Himalayas in the Indian state Uttaranchal, and flows south and east through the Gangetic Plain of North India into Bangladesh, where it empties into the Bay of Bengal. It is the third largest river by discharge.

Uttar Pradesh Pollution Control Board has been continuously conducting water monitoring of River Ganga at 21 sampling points in UP under National Water Quality Monitoring Programme(NWMP) and 03 sampling points through Boards own resources. These sampling stations are located at Bijnore,Muzaffarnagar, Ghaziabad, Bulandshahar, Badaun, Farrukhabad, Kannauj, Kanpur, Raibareli, Kaushambi, Allahabad, Mirzapur and Varanasi.

Average data of Dissolved Oxygen (D.O.), Biochemical Oxygen Demand (B.O.D.) and Total Coliform (T.C.) obtained from water quality monitoring during year 2013-2016 indicates that :-

- Water Quatity Of River Ganga at U/S Near Railway Bridge Gangaghat Balawali, D/S Near Village Rasoolpur Bhawar,Amroha a/c with Chhuuiya River–Bijnore, Shukratal-Muzaffarnagar and Ghatiya Ghat- Farrukhabad falls under category – B(Outdoor Bathing).
- Water Quatity Of River Ganga at D/s Brij Ghat Garhmukteshwar-Hapur, U/s &D/s Annopshahar-Bulandshahar, Rajghat, D/s Narora, Kachhla Ghat-Badaun, Bithoor-Kanpur,U/s & D/s Mirzapur falls under category-C(Drinking Water Source with conventional treatment and after disinfection).
- Water Quatity Of River Ganga at U/s & D/s Kannauj, U/s & D/s Kanpur, Dalmau- Raibareli, Kala Kankar- Pratapgarh, Kada Ghat- Kaushambi U/s & D/s Allahabad, U/s & D/s Varanasi and Tarighat D/s Ghazipur falls under category-D(Fish Culture and wild life propagation).

Water Quality Of River Ganga in UP

Year 2013-2016 (Average Value)

S No	Regional Office	District	Sample Collection Point	2013			2014			2015			2016		
				D.O. (mg/l)	B.O.D. (mg/l)	Total Coliform (MPN/100ml)	D.O. (mg/l)	B.O.D. (mg/l)	Total Coliform (MPN/100ml)	D.O. (mg/l)	B.O.D. (mg/l)	Total Coliform (MPN/100ml)	D.O. (mg/l)	B.O.D. (mg/l)	Total Coliform (MPN/100ml)
1	Bijnore	Bijnore	U/S Balawali	7.65	0.50	--	7.65	0.53	--	8.31	0.82	--	9.31	0.73	--
2	Bijnore	Bijnore	D/S Rasoolpur Bhawar,Amroha	6.85	1.13	--	7.01	1.13	--	7.68	1.26	--	9.06	1.15	--
3	Muzaffarnagar	Muzaffarnagar	Shukratal	7.52	1.29	107	8.01	1.43	113	8.20	1.76	138	7.85	1.80	144
4	Ghaziabad	Hapur	D/s Garhmukteshwar	8.79	2.93	1402	9.04	2.54	1268	8.15	2.77	1233	8.18	2.31	1033
5	Bulandshahar	Bulandshahar	U/s Annopshahar	8.19	2.62	693	8.37	2.58	598	7.66	2.29	590	8.22	2.27	614
6	Bulandshahar	Bulandshahar	D/s Anoopshahar	8.13	2.61	720	8.45	2.43	553	7.62	2.24	547	8.26	2.16	539
7	Bulandshahar	Bulandshahar	Rajghat D/S	7.78	2.60	673	7.94	2.84	657	7.80	3.02	774	7.87	2.96	1432
8	Bulandshahar	Bulandshahar	Kachhla Ghat, Badaun	8.03	2.58	659	8.49	2.25	573	8.25	2.55	673	7.55	2.49	549

	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)

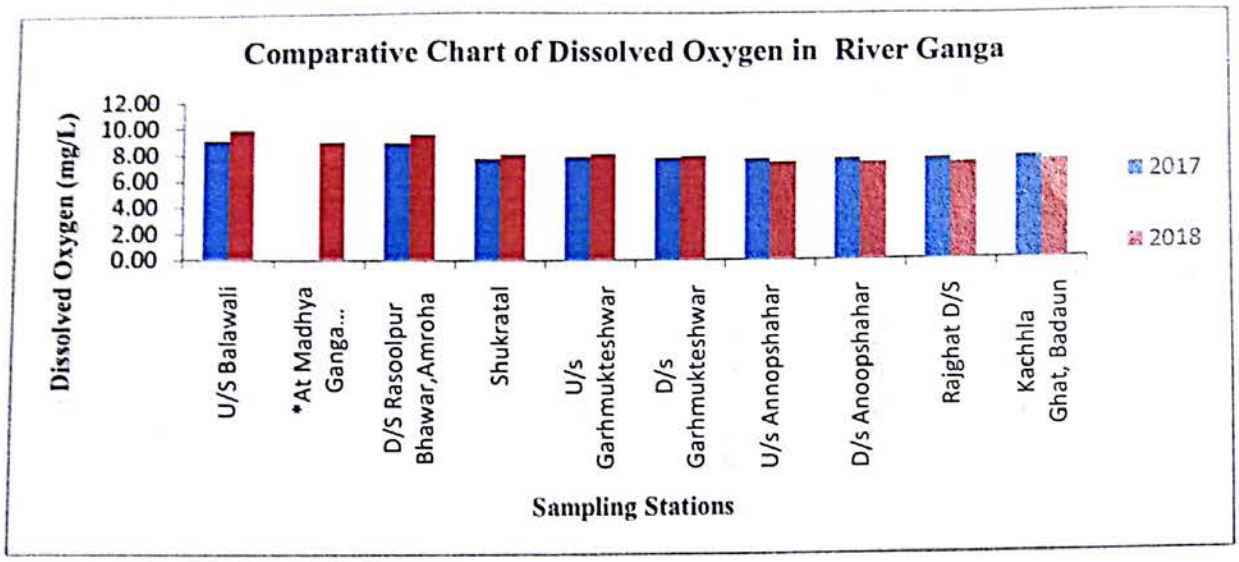
C = Drinking water source after conventional treatment and disinfection

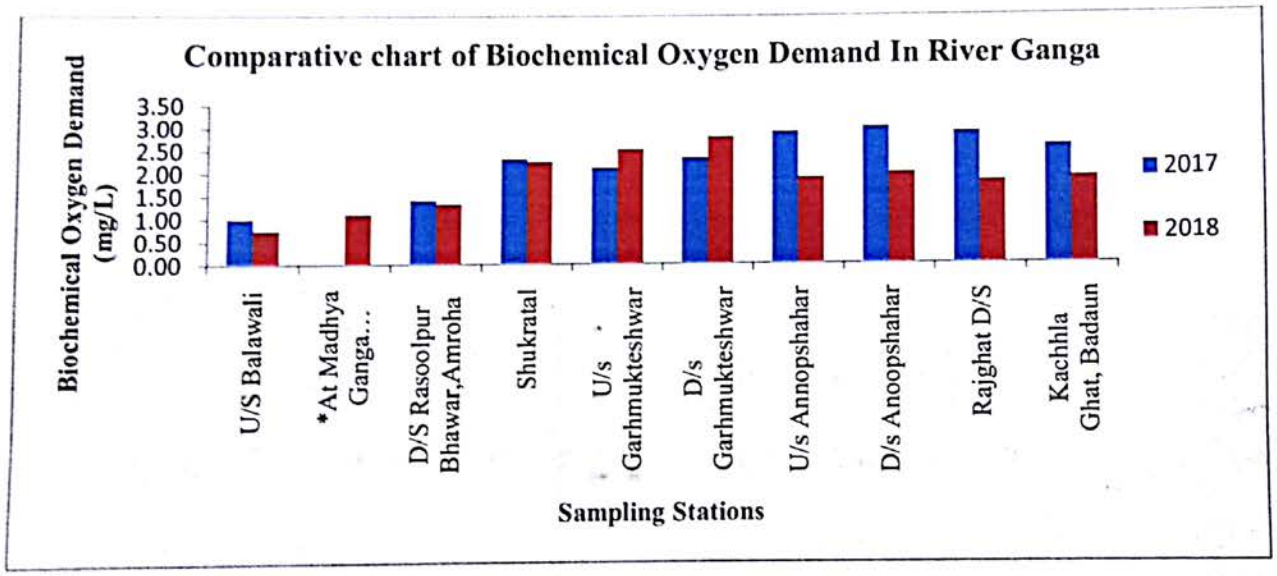
D = Propagation of wild life and fisheries.

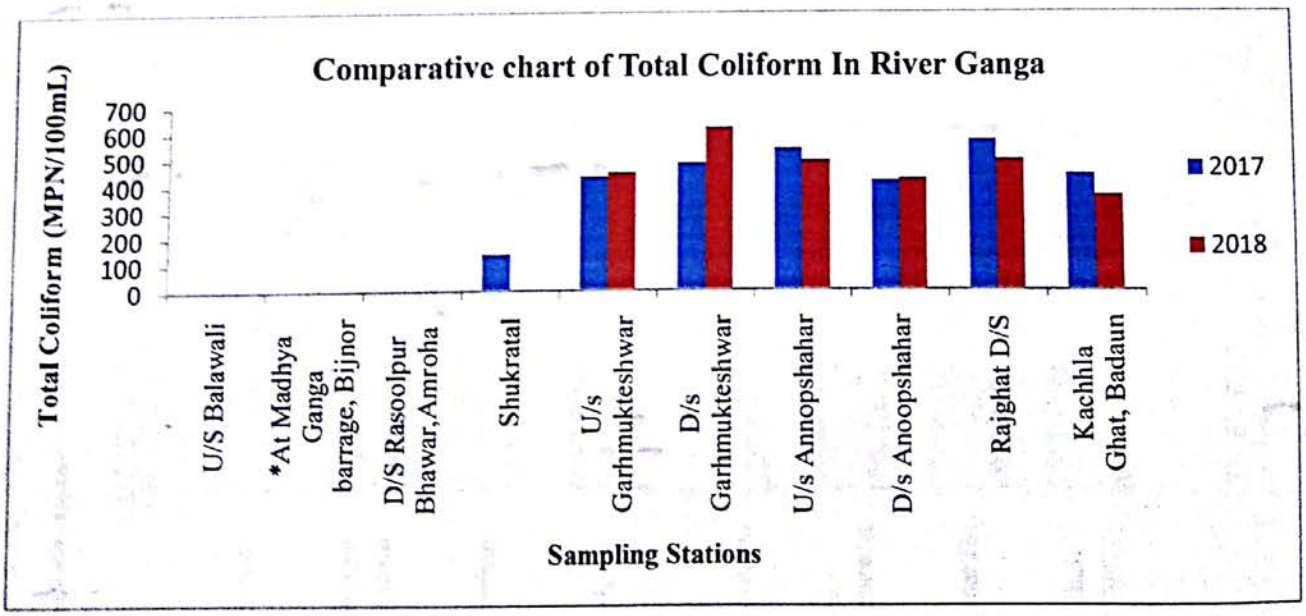
E = Irrigation, Industrial cooling, controlled waste disposal

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

Source: http://www.cpcb.nic.in/Water_Quality_Criteria.php







Water Quality Of River Ganga in UP

Year 2013-2016 (Average Value)

S No	Regional Office	District	Sample Collection Point	2013			2014			2015			2016		
				D.O. (mg/l)	B.O.D. (mg/l)	Total Coliform (MPN/100ml)	D.O. (mg/l)	B.O.D. (mg/l)	Total Coliform (MPN/100ml)	D.O. (mg/l)	B.O.D. (mg/l)	Total Coliform (MPN/100ml)	D.O. (mg/l)	B.O.D. (mg/l)	Total Coliform (MPN/100ml)
9	Kanpur	Farrukhabad	Ghatiya Ghat	8.32	2.52	--	8.85	2.28	--	8.93	2.29	--	8.92	2.08	---
10	Kanpur	Kannauj	Kannauj U/s	8.18	3.98	4075	8.08	2.90	4383	8.35	3.50	3900	8.37	3.16	4033
11	Kanpur	Kannauj	Kannauj D/s	7.88	4.33	4617	7.59	3.35	5067	7.92	3.73	5158	8.26	3.77	5642
12	Kanpur	Kanpur	Bithoor, Kanpur	8.41	3.20	3750	8.17	3.04	4208	8.42	2.80	4350	8.56	2.94	4083
13	Kanpur	Kanpur	Kanpur U/s	8.26	3.42	3825	7.93	3.43	4767	8.38	2.93	5200	8.09	3.45	4575
14	Kanpur	Kanpur	Kanpur D/s	6.74	6.82	72917	6.51	5.66	51500	6.51	5.52	56500	6.12	6.01	69583

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

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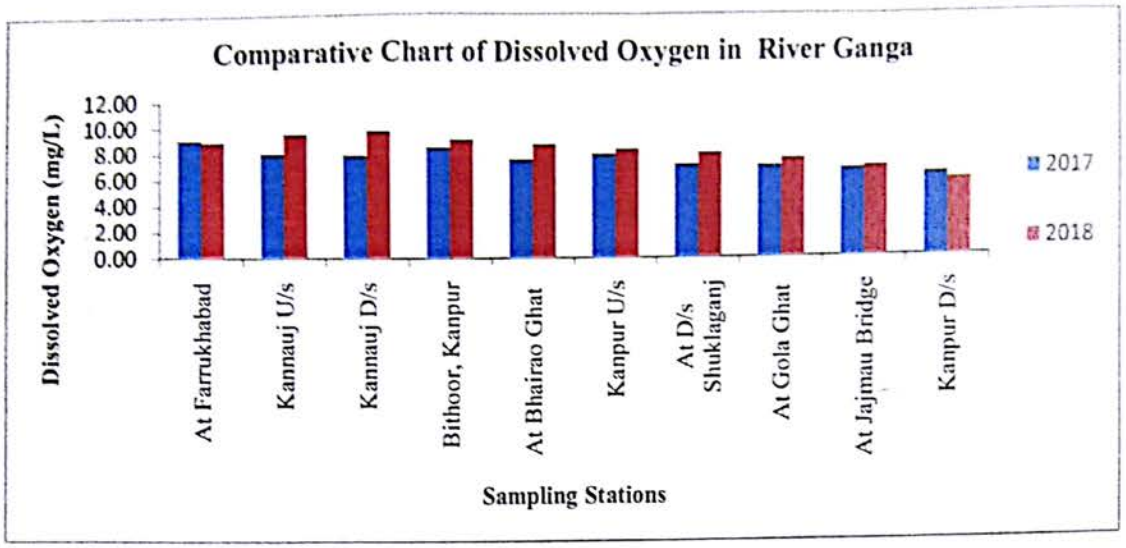

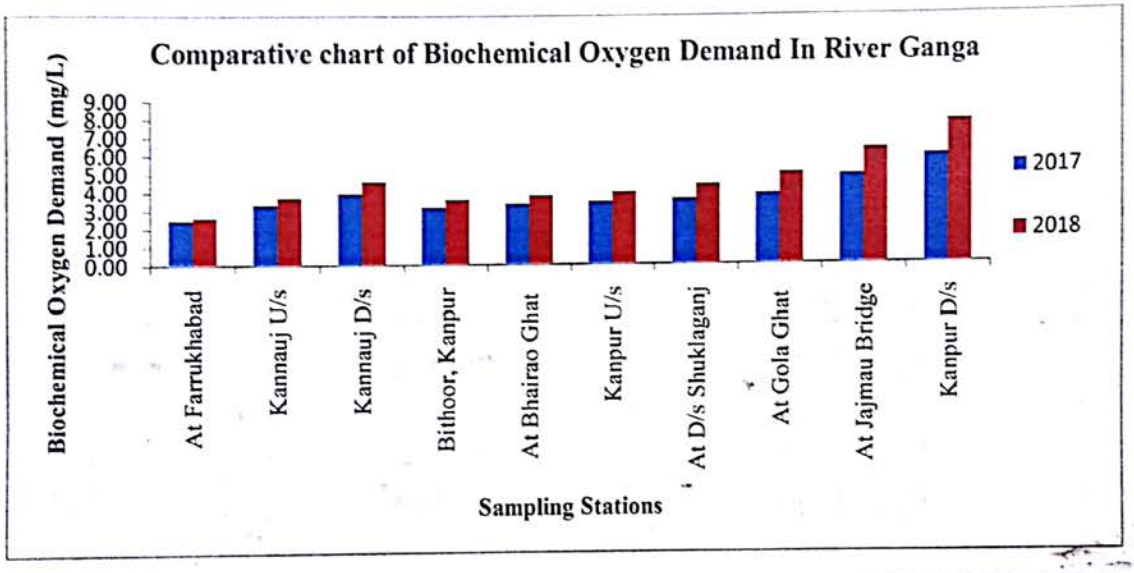

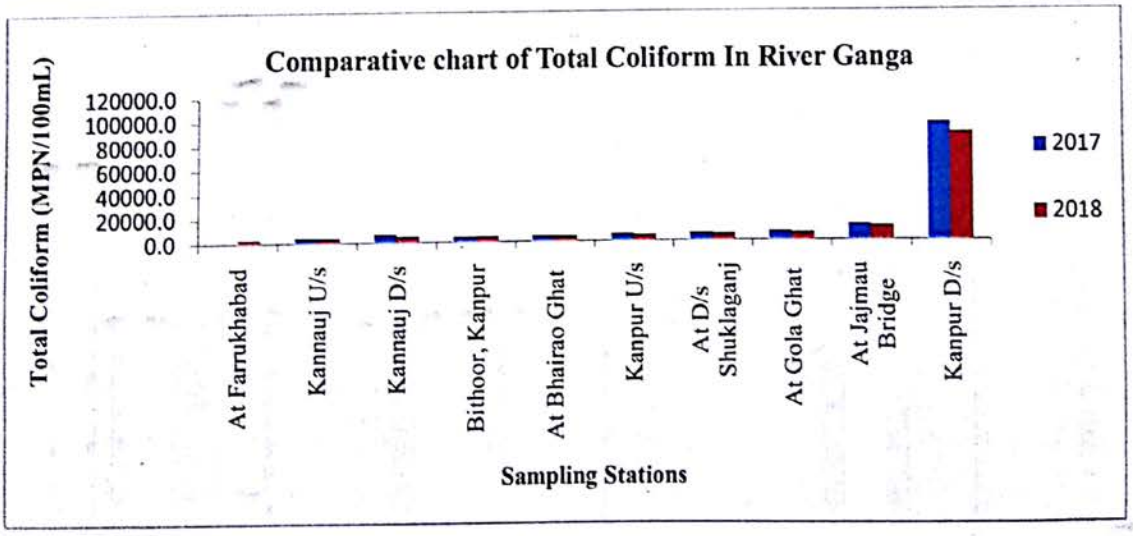

Water Quality Of River Ganga in UP

Year 2013-2016 (Average Value)

S No	Regional Office	District	Sample Collection Point	2013			2014			2015			2016		
				D.O. (mg/l)	B.O.D. (mg/l)	Total Coliform (MPN/100ml)	D.O. (mg/l)	B.O.D. (mg/l)	Total Coliform (MPN/100ml)	D.O. (mg/l)	B.O.D. (mg/l)	Total Coliform (MPN/100ml)	D.O. (mg/l)	B.O.D. (mg/l)	Total Coliform (MPN/100ml)
15	Raibareli	Raibareli	Dalmau, Raibareli	8.18	3.58	7558	8.03	3.68	8250	8.14	4.18	8408	7.55	4.37	8275
16	Raibareli	Pratapgarh	Kala Kankar, Pratapgarh	8.31	3.45	7333	8.18	3.56	7967	8.31	4.01	8083	7.70	4.23	7983
17	Allahabad	Koshambi	Kada Ghat	8.56	3.51	22167	8.42	3.87	31833	8.06	4.05	32583	7.93	4.20	41167
18	Allahabad	Allahabad	Allahabad U/s	8.63	3.58	20667	8.74	3.63	29500	8.19	3.87	32000	7.96	3.94	39250
19	Allahabad	Allahabad	Allahabad D/s	8.41	3.63	24250	8.53	3.69	32417	8.03	4.12	34750	8.03	4.15	42833
20	Sonbhadra	Mirzapur	U/s Vindhyachal, Mirzapur	8.73	2.68	3633	8.39	2.40	3358	7.41	2.05	2355	8.08	2.23	2433
21	Sonbhadra	Mirzapur	D/s Mirzapur	8.38	3.20	4783	8.48	2.60	4158	7.65	2.23	2718	8.03	2.48	2792
22	Varanasi	Varanasi	Varanasi U/s	7.91	2.99	8817	8.28	2.87	3950	8.30	3.12	3208	8.56	3.12	3075
23	Varanasi	Varanasi	Varanasi D/s	7.43	4.57	49917	7.76	4.45	47333	7.44	5.09	45000	7.06	5.79	46500
24	Varanasi	Gazipur	Tarighat D/s Ghazipur	7.47	3.70	23833	7.70	3.93	25667	7.62	4.28	34500	7.51	4.79	33417

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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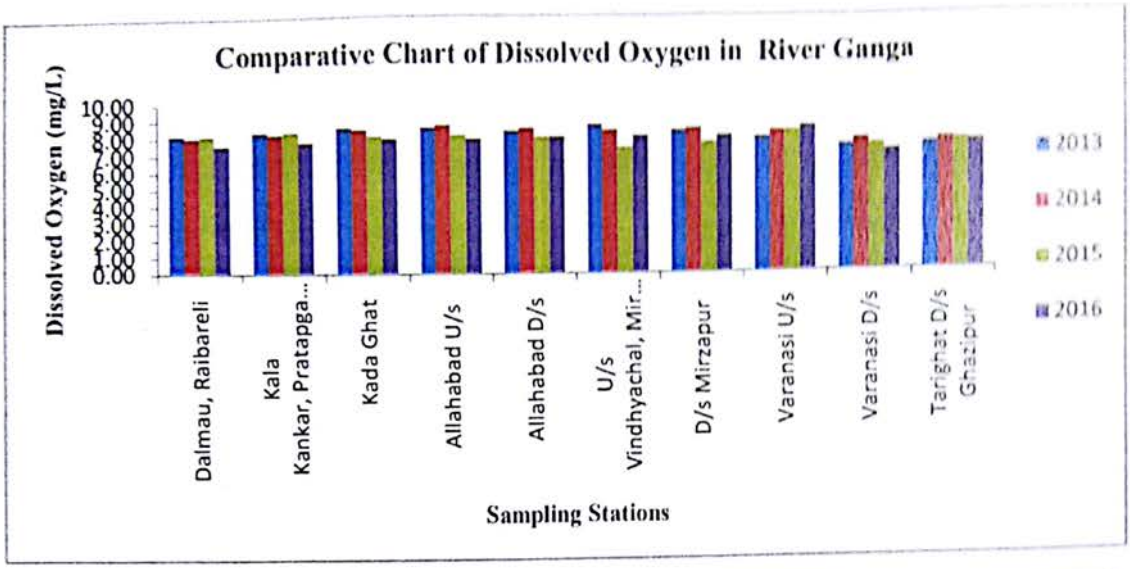

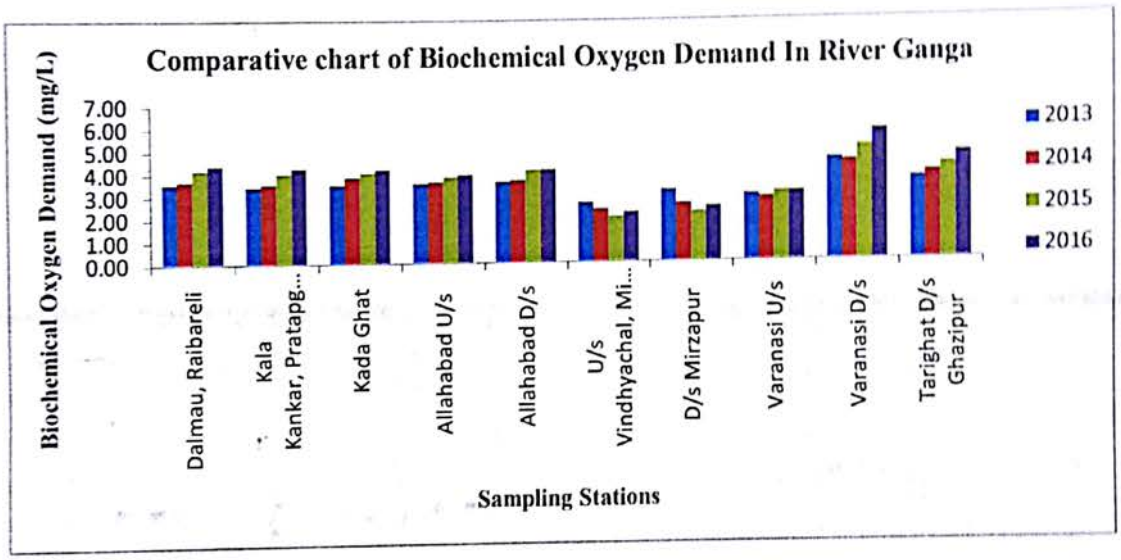

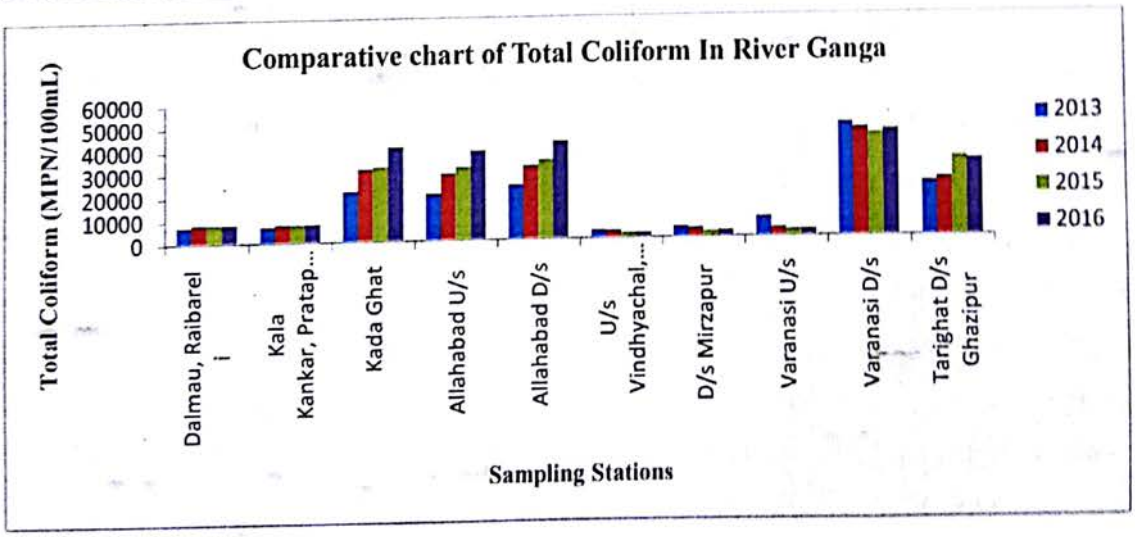

Water Quality of River Ganga In UP

Year 2017-2018

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Average data of Dissolved Oxygen (D.O.), Biochemical Oxygen Demand (B.O.D.) and Total Coliform (T.C.) obtained from water quality monitoring during year 2017-2018 indicates that :-

- Water Quality Of River Ganga at U/S Near Railway Bridge Gangaghat Balawali, At Madhya Ganga barrage, D/S Near Village Rasoolpur Bhawar,Amroha a/c with Chhuuiya River-Bijnor, Shukratal-Muzaffarnagar, U/s Brij Ghat Garhmukteshwar-Hapur, U/s &D/s Anmopshahar-Bulandshahar Rajghat, D/s Narora, Kachhla Ghat-Badaun and falls under category –B(Outdoor Bathing).
- Water Quality Of River Ganga at D/s Brij Ghat Garhmukteshwar-Hapur, At Farrukhabad, U/s Mirzapur, U/s Varanasi falls under category-C (Drinking Water Source with conventional treatment and after disinfection).
- Water Quality Of River Ganga at U/s & D/s Kannauj, Bithoor-Kanpur, At Bhairao Ghat (Bathing Ghat) Kanpur, U/s Kanpur, At D/s Shuklaganj-Kanpur, At Gola Ghat(Bathing Ghat), Kanpur, At Jajmau Bridge-Kanpur, D/s Kanpur, Dalmau- Raibareli, Kala Kankar- Pratapgarh, Kada Ghat- Kaushambi U/s & D/s Allahabad, River Ganga a/c Tamsa river, Sirsa, Son Barsa , D/s Mirzapur, At Chunnar Pontoon Bridge, D/s Varanasi, Tarighat D/s Ghazipur and River Ganga a/c Gomti river, Bhusaula falls under category-D(Fish Culture and wild life propagation).

Water Quality Of River Ganga in UP

Year 2017-2018 (Average Value)

S No	Regional Office	District	Sample Collection Point	2017			2018 (Jan to June)		
				D.O. (mg/l)	B.O.D. (mg/l)	Total Colliform (MPN/100ml)	D.O. (mg/l)	B.O.D. (mg/l)	Total Colliform (MPN/100ml)
1	Bijnore	Bijnore	U/S Balawali	9.15	1.00	-	9.90	0.75	-
2	Bijnore	Bijnore	*At Madhya Ganga barrage, Bijnor	-	-	-	8.98	1.10	-
3	Bijnore	Bijnore	D/S Rasoolpur Bhawar,Amroha	8.91	1.41	-	9.57	1.32	-
4	Muzaffarnagar	Muzaffarnagar	Shukratal	7.73	2.33	138	8.07	2.25	-
5	Ghaziabad	Hapur	U/s Garhmukteshwar	7.88	2.14	430	8.09	2.52	447
6	Ghaziabad	Hapur	D/s Garhmukteshwar	7.77	2.33	484	7.90	2.80	620
7	Bulandshahar	Bulandshahar	U/s Annopshahar	7.68	2.92	538	7.40	1.90	490
8	Bulandshahar	Bulandshahar	D/s Anoopshahar	7.69	3.02	413	7.40	2.00	418
9	Bulandshahar	Bulandshahar	Rajghat D/S	7.68	2.90	572	7.30	1.80	495
10	Bulandshahar	Bulandshahar	Kachhla Ghat, Badaun	7.75	2.60	439	7.38	1.90	360

* Sampling Point started from year 2018.

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

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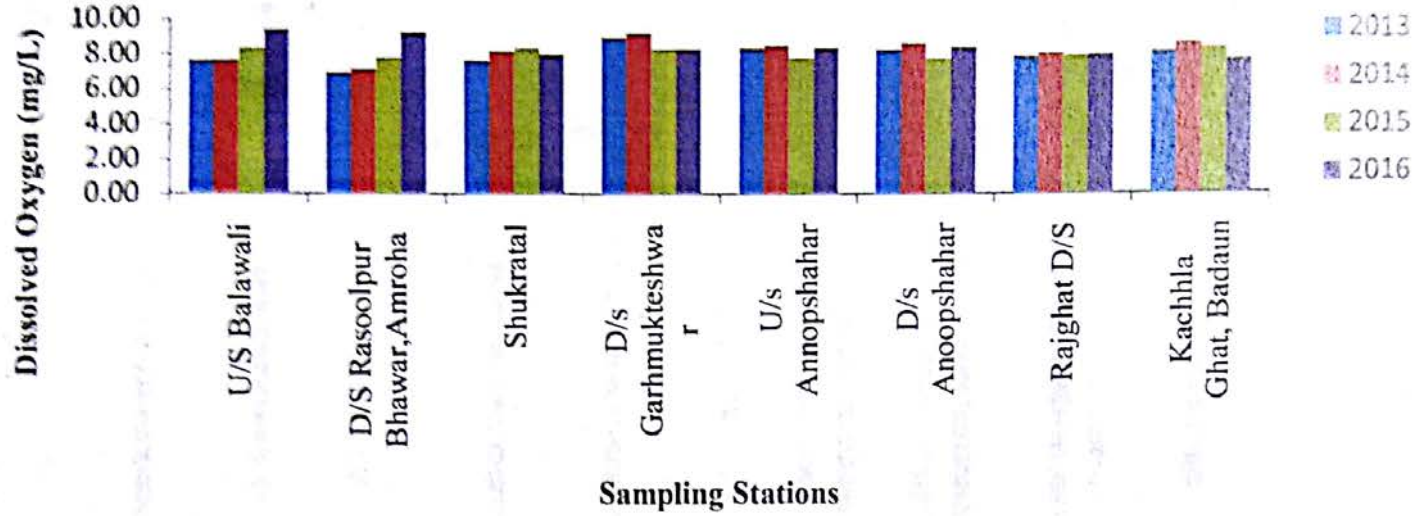
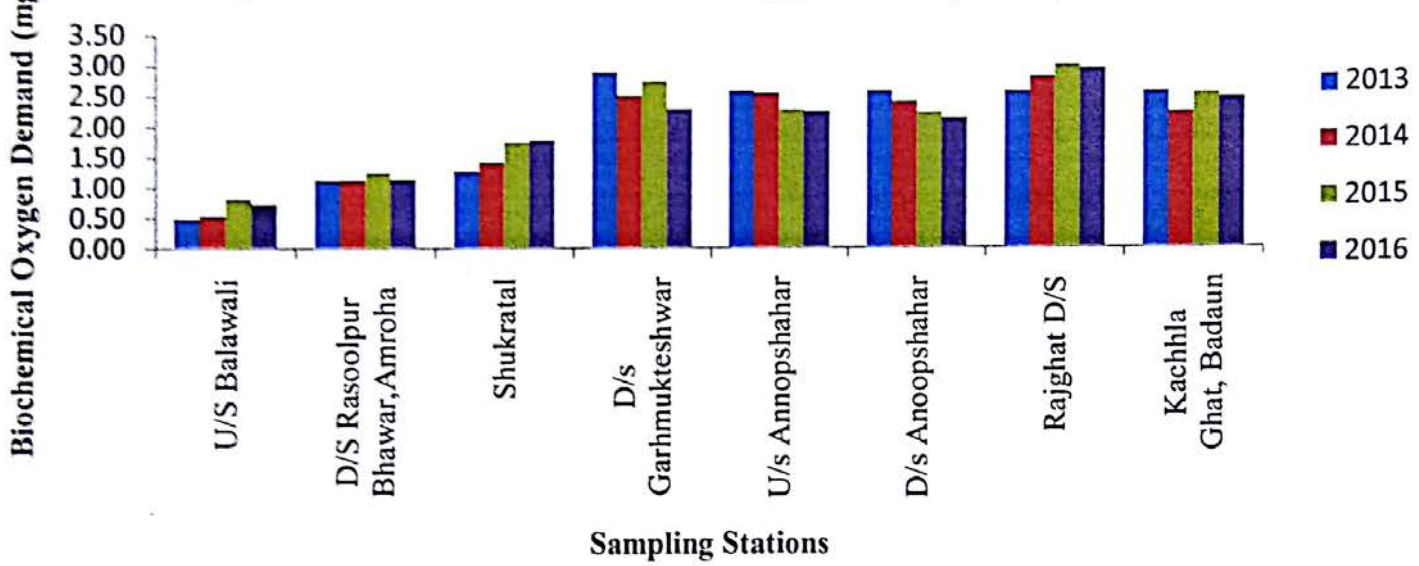
Source: http://www.cpcb.nic.in/Water_Quality_Criteria.php

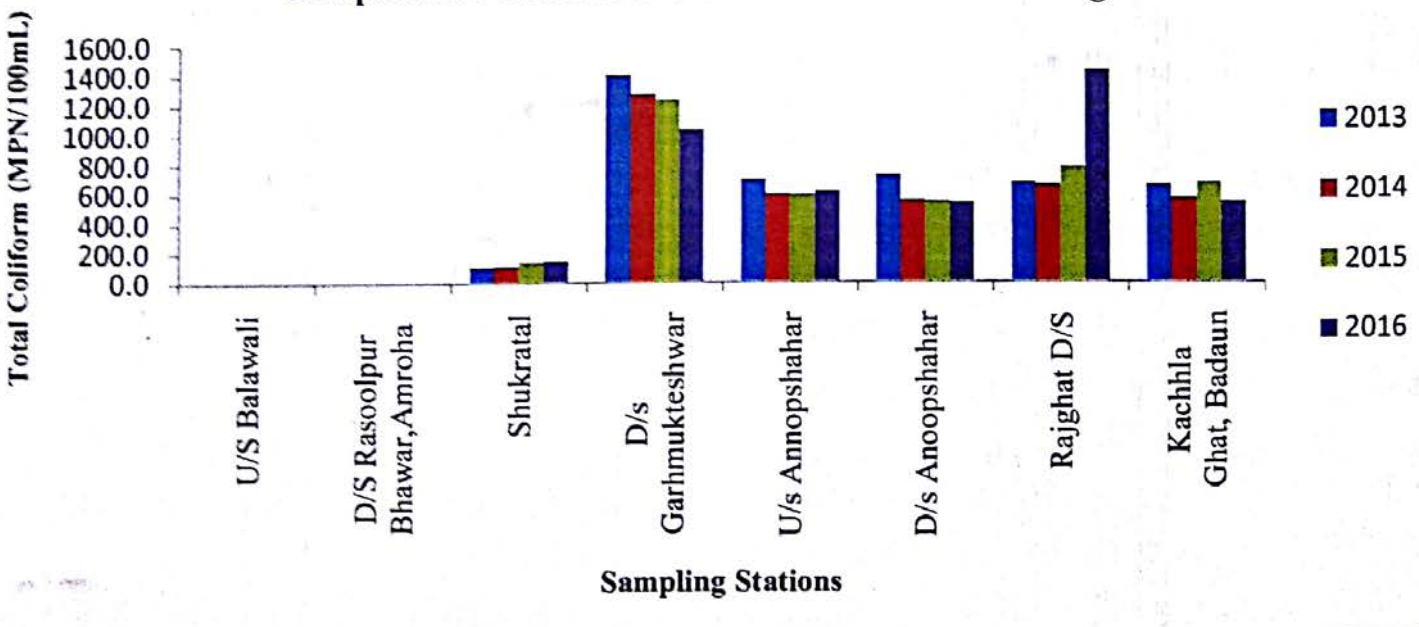
Comparative Chart of Dissolved Oxygen in River Ganga



Comparative chart of Biochemical Oxygen Demand In River Ganga



Comparative chart of Total Coliform In River Ganga



Water Quality Of River Ganga in UP

Year 2017-2018 (Average Value)

S No	Regional Office	District	Sample Collection Point	2017			2018 (Jan to June)		
				D.O. (mg/l)	B.O.D. (mg/l)	Total Coliform (MPN/100ml)	D.O. (mg/l)	B.O.D. (mg/l)	Total Coliform (MPN/100ml)
11	Kanpur	Farrukhabad	At Farrukhabad	9.06	2.46	--	8.90	2.60	2740
12	Kanpur	Kannauj	Kannauj U/s	8.01	3.35	4483	9.50	3.70	3967
13	Kanpur	Kannauj	Kannauj D/s	7.87	3.94	6742	9.70	4.60	4783
14	Kanpur	Kanpur	Bithoor, Kanpur	8.53	3.19	4283	9.10	3.60	4233
15	Kanpur	Kanpur	At Bhairao Ghat	7.59	3.37	4814	8.70	3.80	4550
16	Kanpur	Kanpur	Kanpur U/s	7.95	3.46	5892	8.30	4.00	4800
17	Kanpur	Kanpur	At D/s Shuklaganj	7.16	3.59	6671	8.00	4.40	5517
18	Kanpur	Kanpur	At Gola Ghat	7.01	3.86	7657	7.53	5.00	6250
19	Kanpur	Kanpur	At Jajmau Bridge	6.76	4.90	13429	6.90	6.30	11633
20	Kanpur	Kanpur	Kanpur D/s	6.32	5.95	97917	5.80	7.80	89333

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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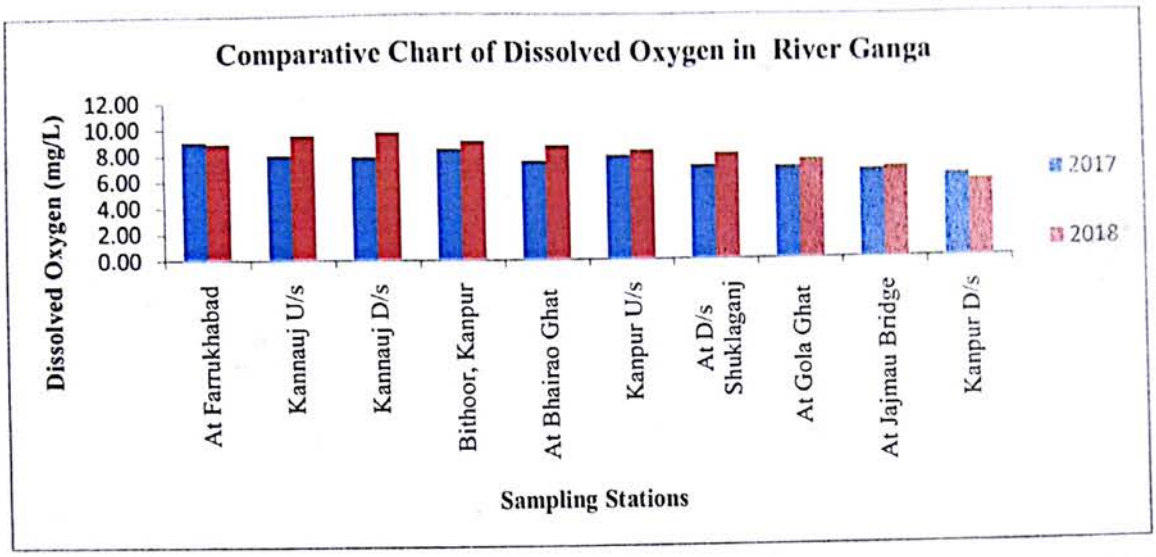

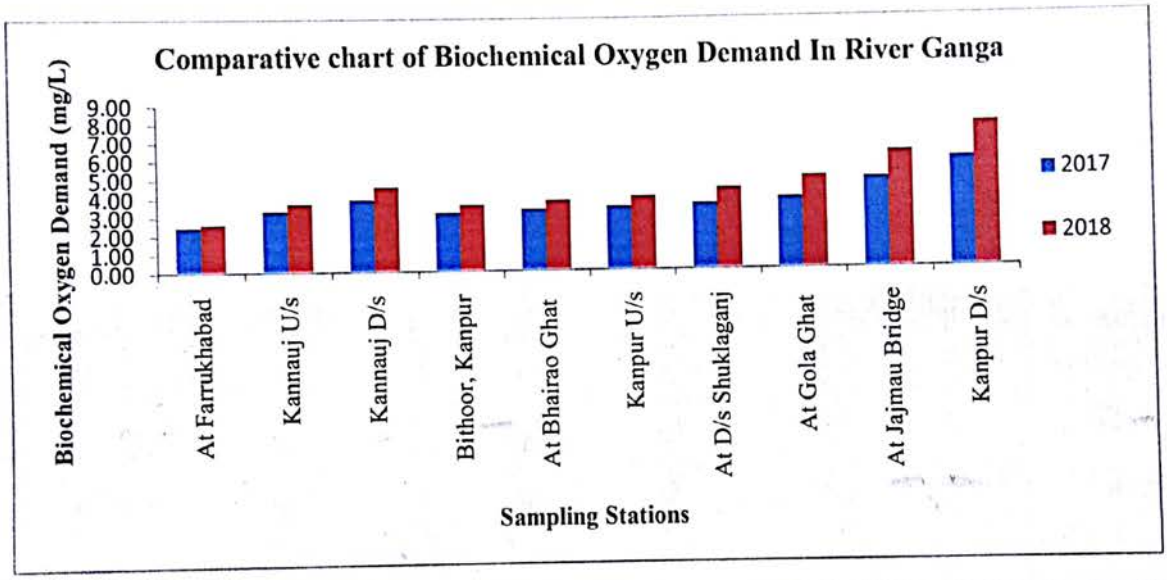

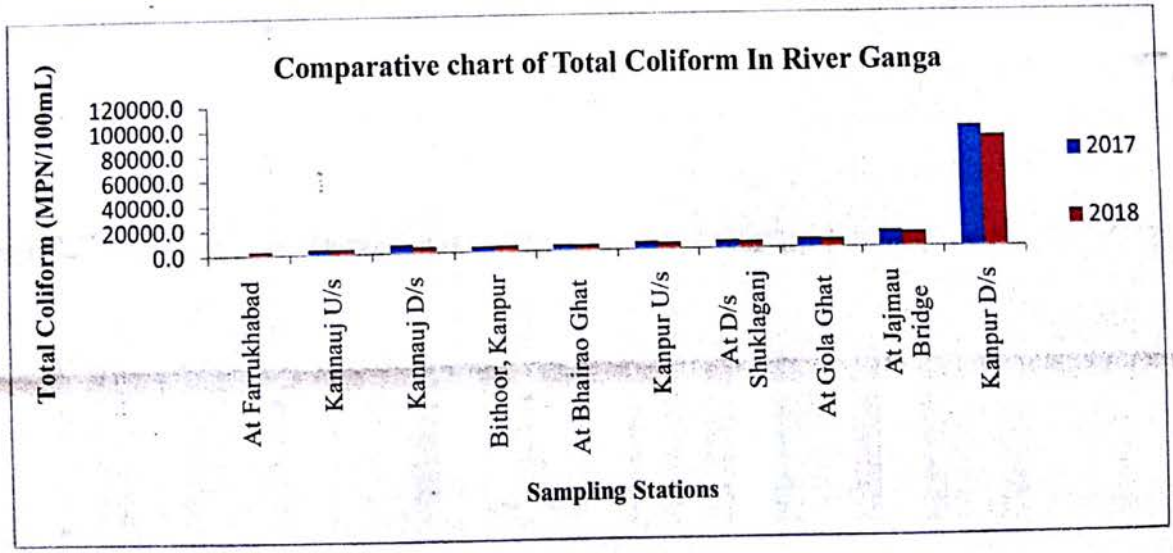

Water Quality Of River Ganga in UP

Year 2017-2018 (Average Value)

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				D.O. (mg/l)	B.O.D. (mg/l)	Total Coliform (MPN/100ml)	D.O. (mg/l)	B.O.D. (mg/l)	Total Coliform (MPN/100ml)
21	Raibareli	Raibareli	Dalmau, Raibareli	7.50	4.17	7842	9.60	3.90	7900
22	Raibareli	Pratapgarh	Kala Kankar, Pratapgarh	7.63	4.07	7633	9.70	3.70	7717
23	Allahabad	Koshambi	Kada Ghat	7.87	4.89	35750	9.30	4.40	30667
24	Allahabad	Allahabad	Allahabad U/s	8.15	4.43	32583	9.70	4.10	28500
25	Allahabad	Allahabad	Allahabad D/s	7.93	4.60	36167	9.20	3.90	25500
26	Allahabad	Allahabad	* a/c Tamsa river, Sirsa, Son Barsa	-	-	-	8.70	3.40	20200
27	Sonbhadra	Mirzapur	U/s Vindhyachal, Mirzapur	8.17	2.55	2491	8.60	2.60	2867
28	Sonbhadra	Mirzapur	D/s Mirzapur	7.93	2.78	2900	8.20	3.10	3483
29	Sonbhadra	Sonbhadra	* At Chunnar Pontoon Bridge	-	-	-	8.20	3.40	2820
30	Varanasi	Varanasi	Varanasi U/s	8.16	3.11	2967	8.50	3.00	3133
31	Varanasi	Varanasi	Varanasi D/s	6.75	5.56	53917	7.10	5.40	53667
32	Varanasi	Gazipur	Tarighat D/s Ghazipur	7.26	5.06	42667	7.60	4.50	45500
33	Varanasi	Gazipur	* a/c Gomti river, Bhusaula	-	-	-	8.30	3.50	24200

* Sampling Point started from year 2018.

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

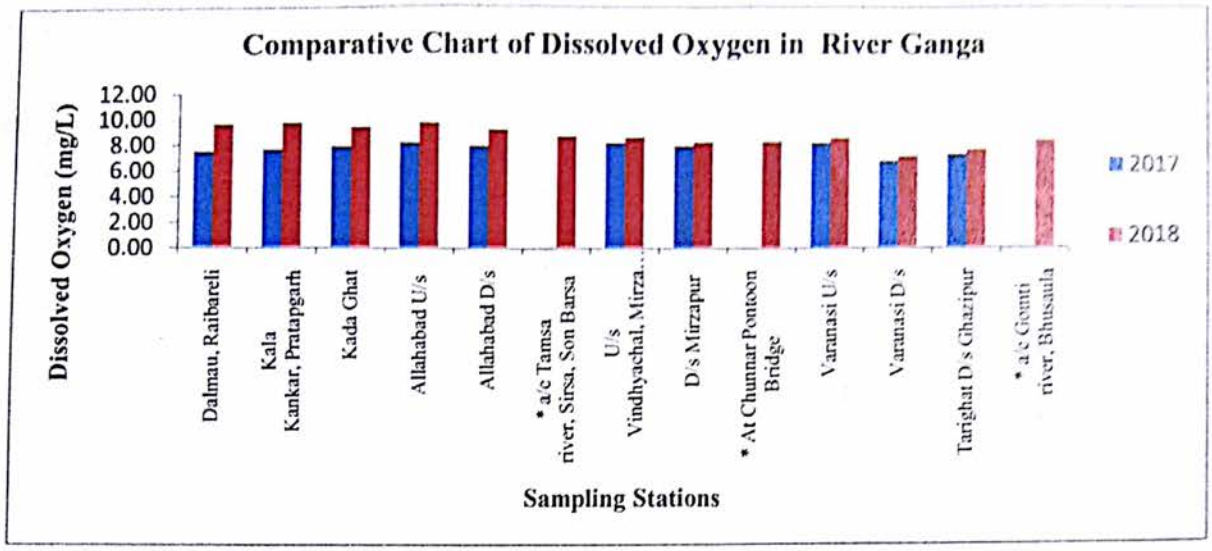
B= Outdoor bathing (organised)

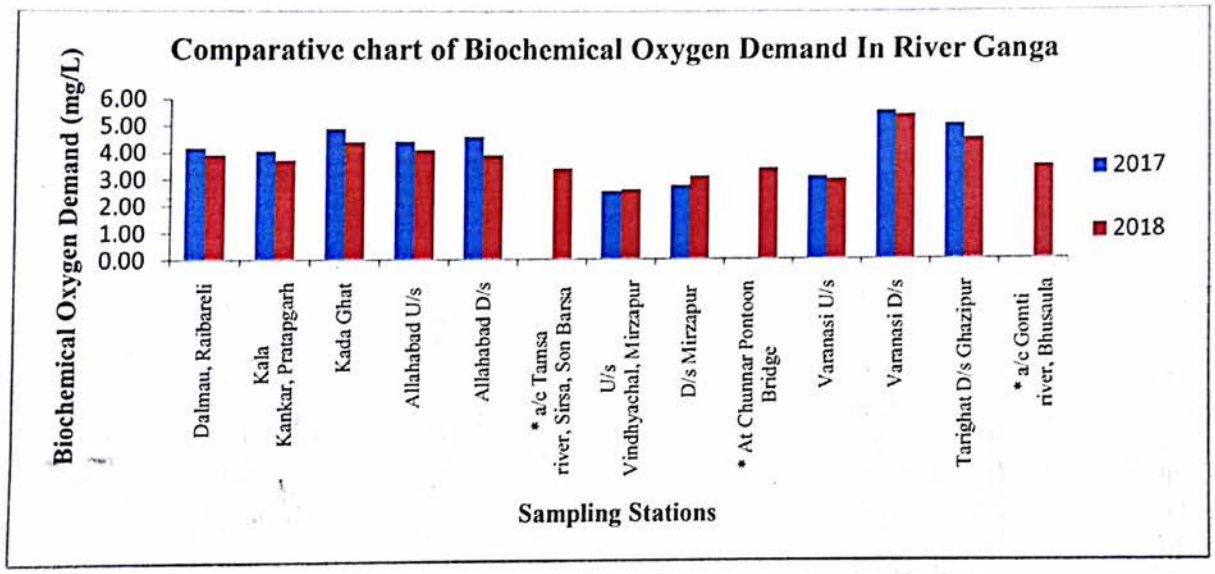
C = Drinking water source after conventional treatment and disinfection

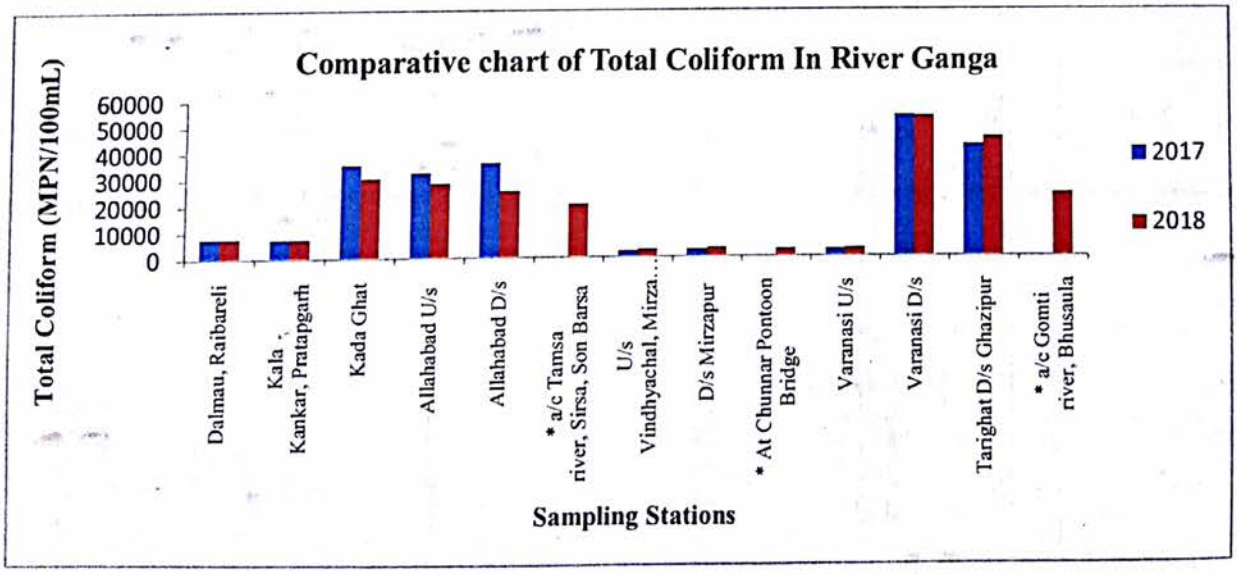
D = Propagation of wild life and fisheries.

E = Irrigation, Industrial cooling, controlled waste disposal

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







Water Quality of River Ganga In UP

Year 2018 (Jan to June)

The **Ganga River** is a trans-boundary river of Asia which flows through the nations of India and Bangladesh. The 2,525 km river rises in the western Himalayas in the Indian state Uttaranchal, and flows south and east through the Gangetic Plain of North India into Bangladesh, where it empties into the Bay of Bengal. It is the third largest river by discharge.

Uttar Pradesh Pollution Control Board has been continuously conducting monitoring of River Ganga at 31 sampling points in UP under National Water Quality Monitoring Programme(NWMP) and 02 sampling points through Boards own resources. These sampling stations are located at Bijnore, Muzaffarnagar, Hapur, Bulandshahar, Badaun, Farrukhabad, Kannauj, Kanpur, Raibareli, Pratapgarh, Kaushambi, Allahabad, Mirzapur and Varanasi.

Average data of Dissolved Oxygen (D.O.), Biochemical Oxygen Demand (B.O.D.) and Total Coliform (T.C.) obtained from water quality monitoring during 2018 indicates that :-

- Water Quality Of River Ganga at U/S Near Railway Bridge Gangaghat Balawali, At Madhya Ganga barrage, D/S Near Village Rasoolpur Bhawar,Amroha a/c with Chhuuiya River-Bijnor, Shukratal-Muzaffarnagar, U/s Brij Ghat Garhmukteshwar-Hapur, U/s &D/s Annopshahar-Bulandshahar Rajghat, D/s Narora, Kachhla Ghat-Badaun and falls under category – B(Outdoor Bathing).
- Water Quality Of River Ganga at D/s Brij Ghat Garhmukteshwar-Hapur, At Farrukhabad, U/s Mirzapur, U/s Varanasi falls under category-C (Drinking Water Source with conventional treatment and after disinfection).
- Water Quality Of River Ganga at U/s & D/s Kannauj, Bithoor-Kanpur, At Bhairao Ghat (Bathing Ghat) Kanpur, U/s Kanpur, At D/s Shuklaganj-Kanpur, At Gola Ghat(Bathing Ghat), Kanpur, At Jajmau Bridge-Kanpur, D/s Kanpur, Dalmau- Raibareli, Kala Kankar- Pratapgarh, Kada Ghat- Kaushambi U/s & D/s Allahabad, River Ganga a/c Tamsa river, Sirsa, Son Barsa , D/s Mirzapur, At Chunnar Pontoon Bridge, D/s Varanasi, Tarighat D/s Ghazipur and River Ganga a/c Gomti river, Bhusaula falls under category-D(Fish Culture and wild life propagation).

Water Quality Of River Ganga in UP
Year-2018

SAMPLING LOCATION (1–3)

Month	1 U/S Near Railway Bridge Gangaghat Balawali Bijnor				2 *At Madhya Ganga barrage, Bijnor				3 D/S Near Village Rasoolpur Bhawar,Amroha a/c with Chhuuiya River Bijnor			
	D.O. (mg/l)	B.O.D. (mg/l)	Total Coliform (MPN/100ml)	FaecalColiform (MPN/100ml)	D.O. (mg/l)	B.O.D. (mg/l)	Total Coliform (MPN/100ml)	FaecalColiform (MPN/100ml)	D.O. (mg/l)	B.O.D. (mg/l)	Total Coliform (MPN/100ml)	FaecalColiform (MPN/100ml)
Jan-18	10.5	0.8	-	-	-	-	-	-	10.1	1.2	-	-
Feb-18	10.6	0.8	-	-	9.1	1.1	-	-	10.2	1.4	-	-
Mar-18	10.1	0.6	-	-	9.0	0.9	-	-	9.7	1.3	-	-
Apr-18	9.60	0.7		-	8.80	1.0		-	9.20	1.2		-
May-18	9.20	0.8	-	-	8.70	1.1	-	-	9.00	1.4	-	-
Jun-18	9.40	0.7	-	-	9.30	1.4	-	-	9.20	1.4	-	-
Jul-18												
Aug-18												
Sep-18												
Oct-18												
Nov-18												
Dec-18												
Average	**9.9**	**0.7**	-	-	**9.0**	**1.1**	-	-	**9.6**	**1.3**	-	-

SAMPLING LOCATION (4–6)

Month	4 Shukratal Muzaffarnagar				5 U/S Brij Ghat Garhmukteshwar				6 D/S Brij Ghat Garhmukteshwar			
	D.O. (mg/l)	B.O.D. (mg/l)	Total Coliform (MPN/100ml)	FaecalColiform (MPN/100ml)	D.O. (mg/l)	B.O.D. (mg/l)	Total Coliform (MPN/100ml)	FaecalColiform (MPN/100ml)	D.O. (mg/l)	B.O.D. (mg/l)	Total Coliform (MPN/100ml)	FaecalColiform (MPN/100ml)
Jan-18	8.40	2.1	-	-	9.40	2.7	550	310	9.14	2.9	610	370
Feb-18	8.50	2.0	-	-	7.74	2.5	410	180	7.58	3.0	630	350
Mar-18	8.00	2.3	-	-	7.68	3.00	430	210	7.70	3.2	610	370
Apr-18	7.80	2.4	-	-	8.10	2.80	410	220	7.96	2.5	630	410
May-18	7.90	2.3	-	-	7.68	2.11	430	250	7.40	2.5	610	420
Jun-18	7.80	2.4			7.96	2.00	450	120	7.70	2.5	630	270
Jul-18												
Aug-18												
Sep-18												
Oct-18												
Nov-18												
Dec-18												
Average	**8.1**	**2.3**	-	-	**8.1**	**2.5**	**447**	**215**	**7.9**	**2.8**	**620**	**365**

SAMPLING LOCATION (7–9)

Month	7 U/s Annopshahar, Bulandshahar				8 D/s Anoopshahar, Bulandshahar				9 Rajghat D/S Narora			
	D.O. (mg/l)	B.O.D. (mg/l)	Total Coliform (MPN/100ml)	FaecalColiform (MPN/100ml)	D.O. (mg/l)	B.O.D. (mg/l)	Total Coliform (MPN/100ml)	FaecalColiform (MPN/100ml)	D.O. (mg/l)	B.O.D. (mg/l)	Total Coliform (MPN/100ml)	FaecalColiform (MPN/100ml)
Jan-18	7.40	2.0	430	220	7.20	2.0	410	210	7.30	1.7	450	240
Feb-18	7.30	1.8	450	250	7.40	2.2	420	230	7.50	1.6	430	220
Mar-18	7.60	2.2	550	270	7.80	2.4	430	240	7.20	2.0	450	230
Apr-18	7.20	1.8	530	250	7.00	1.8	410	250	7.00	1.6	470	270
May-18	7.20	1.6	550	270	7.20	1.4	430	310	7.00	1.80	550	290
Jun-18	7.40	2.2	430	250	7.80	2.0	410	210	7.60	2.20	610	270
Jul-18												
Aug-18												
Sep-18												
Oct-18												
Nov-18												
Dec-18												
Average	**7.4**	**1.9**	**490**	**252**	**7.4**	**2.0**	**418**	**242**	**7.3**	**1.8**	**493**	**253**

* Sampling Point started from Feb 2018.

Water Quality Of River Ganga in UP
(Year-2018)

SAMPLING LOCATION

Month	10				11				12				13			
	Kachhla Ghat, Badaun				*At Farrukhabad				U/S Kannauj				D/S Kannauj			
	D.O. (mg/l)	B.O.D. (mg/l)	Total Coliform (MPN/100ml)	FaecalColiform (MPN/100ml)	D.O. (mg/l)	B.O.D. (mg/l)	Total Coliform (MPN/100ml)	FaecalColiform (MPN/100ml)	D.O. (mg/l)	B.O.D. (mg/l)	Total Coliform (MPN/100ml)	FaecalColiform (MPN/100ml)	D.O. (mg/l)	B.O.D. (mg/l)	Total Coliform (MPN/100ml)	FaecalColiform (MPN/100ml)
Jan-18	7.40	2.0	370	220	-	-	-	-	11.6	3.5	4000	2100	11.20	4.8	4700	2600
Feb-18	7.40	2.0	350	210	10.4	2.5	2800	1700	9.80	3.4	3900	2200	9.40	4.5	4600	2100
Mar-18	7.60	2.2	370	220	9.80	2.6	2400	1300	9.10	3.2	3400	2200	9.60	4.2	4300	2500
Apr-18	7.10	1.4	350	210	9.30	2.7	2800	1700	10.10	3.4	4000	2100	10.20	4.4	4900	2700
May-18	7.20	1.6	370	250	8.50	2.5	3100	2100	8.20	4.6	4600	2500	8.90	5.0	5600	3100
Jun-18	7.60	2.0	350	150	6.50	2.6	2600	1700	8.10	3.8	3900	2200	8.60	4.6	4600	2500
Jul-18																
Aug-18																
Sep-18																
Oct-18																
Nov-18																
Dec-18																
Average	7.38	1.9	360	210	8.9	2.6	2740	1700	9.5	3.7	3967	2217	9.7	4.6	4783	2583

Month	14				15				16				17			
	Bithoor Kanpur				At Bhairao Ghat (Bathing Ghat), Kanpur				U/S Kanpur				At D/s Shuklaganj, Kanpur			
	D.O. (mg/l)	B.O.D. (mg/l)	Total Coliform (MPN/100ml)	FaecalColiform (MPN/100ml)	D.O. (mg/l)	B.O.D. (mg/l)	Total Coliform (MPN/100ml)	FaecalColiform (MPN/100ml)	D.O. (mg/l)	B.O.D. (mg/l)	Total Coliform (MPN/100ml)	FaecalColiform (MPN/100ml)	D.O. (mg/l)	B.O.D. (mg/l)	Total Coliform (MPN/100ml)	FaecalColiform (MPN/100ml)
Jan-18	11.60	3.7	3800	2000	11.50	4.0	4100	2400	11.60	4.2	4300	2500	11.30	4.8	4900	3100
Feb-18	9.80	3.5	4000	2100	9.70	3.9	4300	2500	9.50	4.2	4600	2500	9.20	4.6	5600	3100
Mar-18	8.80	3.3	3800	2200	8.60	3.5	4100	2800	8.4	3.6	4300	2800	8.0	4.0	4900	2700
Apr-18	8.30	3.5	5200	3100	7.80	3.7	5600	3100	6.90	3.8	5800	3400	6.20	4.2	6300	3400
May-18	8.10	3.8	4600	2500	7.60	4.0	4900	2700	7.00	4.2	5200	3100	6.80	4.6	5800	3400
Jun-18	7.70	3.5	4000	2100	7.20	3.6	4300	2500	6.50	3.8	4600	2500	6.20	4.1	5600	3100
Jul-18																
Aug-18																
Sep-18																
Oct-18																
Nov-18																
Dec-18																
Average	9.1	3.6	4233	2333	8.7	3.8	4550	2667	8.3	4.0	4800	2800	8.0	4.4	5517	3133

* Sampling Point started from Feb 2018.

Water Quality Of River Ganga in UP
Year- 2018

SAMPLING LOCATION

Month	26 * a/c Tamsa river, Sirsa, Son Barsa				27 U/s Vindhyachal, Mirzapur				28 D/s Mirzapur				29 * At Chunnar Pontoon Bridge			
	D.O. (mg/l)	B.O.D. (mg/l)	Total Coliform (MPN/100ml)	FaecalColiform (MPN/100ml)	D.O. (mg/l)	B.O.D. (mg/l)	Total Coliform (MPN/100ml)	FaecalColiform (MPN/100ml)	D.O. (mg/l)	B.O.D. (mg/l)	Total Coliform (MPN/100ml)	FaecalColiform (MPN/100ml)	D.O. (mg/l)	B.O.D. (mg/l)	Total Coliform (MPN/100ml)	FaecalColiform (MPN/100ml)
Jan-18	-	-	-	-	9.20	2.0	2400	1300	8.70	2.4	2800	1700	-	-	-	-
Feb-18	7.80	3.8	20000	11000	9.30	2.2	2200	1100	8.90	2.8	2800	1700	9.30	4.2	3500	2200
Mar-18	8.30	3.4	17000	7800	8.60	2.5	2800	1300	8.50	2.7	3500	2200	8.40	3.0	3100	1700
Apr-18	9.50	3.3	22000	11000	8.30	2.8	3500	1400	7.70	3.4	4000	2700	8.10	3.1	2300	1300
May-18	9.10	3.50	20000	7800	8.60	3.10	2800	1300	8.00	3.70	3500	2200	8.40	3.40	2400	1300
Jun-18	8.70	3.20	22000	9300	7.50	2.80	3500	1400	7.10	3.40	4300	2200	6.90	3.10	2800	1700
Jul-18																
Aug-18																
Sep-18																
Oct-18																
Nov-18																
Dec-18																
Average	8.7	3.4	20200	9380	8.6	2.6	2867	1300	8.2	3.1	3483	2117	8.2	3.4	2820	1640

Month	30 Varanasi U/s				31 Varanasi D/s				32 Tarighat D/s Ghazipur				33 * a/c Gomti river, Bhusaula			
	D.O. (mg/l)	B.O.D. (mg/l)	Total Coliform (MPN/100ml)	FaecalColiform (MPN/100ml)	D.O. (mg/l)	B.O.D. (mg/l)	Total Coliform (MPN/100ml)	FaecalColiform (MPN/100ml)	D.O. (mg/l)	B.O.D. (mg/l)	Total Coliform (MPN/100ml)	FaecalColiform (MPN/100ml)	D.O. (mg/l)	B.O.D. (mg/l)	Total Coliform (MPN/100ml)	FaecalColiform (MPN/100ml)
Jan-18	8.60	2.8	3100	1700	7.30	5.3	49000	33000	7.50	4.7	46000	23000	-	-	-	-
Feb-18	9.20	2.6	2700	1300	7.80	5.2	49000	23000	8.20	4.0	43000	23000	8.90	3.0	21000	13000
Mar-18	8.70	3.00	3100	1700	7.50	5.3	49000	33000	7.90	4.4	43000	23000	8.50	3.3	23000	13000
Apr-18	8.80	3.00	3400	1700	7.20	5.3	63000	43000	8.20	4.2	49000	33000	8.60	3.4	27000	17000
May-18	7.70	3.20	3100	1700	6.50	5.60	49000	33000	7.10	4.80	43000	31000	7.70	4.0	23000	13000
Jun-18	7.70	3.10	3400	2200	6.50	5.60	63000	43000	6.80	5.00	49000	33000	7.60	4.0	27000	17000
Jul-18																
Aug-18																
Sep-18																
Oct-18																
Nov-18																
Dec-18																
Average	8.5	3.0	3133	1717	7.1	5.4	53667	34667	7.6	4.5	45500	27667	8.3	3.5	24200	14600

*** Sampling Point started from Feb 2018.**

Status of Water Quality of River Ramganga in Uttar Pradesh

Year 2013-2017 (Average)

- The River Ramganga originates from Paudi Garhwal of Uttarakhand and finally meets in River Ganga at Kannauj. During its course it flows through Moradabad, Rampur, Bareilly and Shahjahanpur.
- Uttar Pradesh Pollution Control Board has been continuously conducting water quality of River Ramganga through Boards own resources at 05 stations and at 01 station under National Water Quality Monitoring Programme.
- These sampling points are located in Moradabad, Rampur, Bareilly, Shahjahanpur and Kannauj district.
- Average data of Dissolved Oxygen (DO), Biochemical Oxygen Demand (BOD) and Total Coliform (TC) values obtained from Water Quality Monitoring during 2013-2017 indicates that-
  - At Moradabad Rampur Road Bridge, Moradabad water is fit for irrigation purposes (category E) except in year 2013 & 2016 when water quality improved to Category D.
  - At remaining 05 stations water is fit for fish propagation (category D)

WATER QUALITY OF RIVER RAMGANGA IN UTTAR PRADESH
Year 2013-2017 (Avarge)

S.No.	Sampling Point	2013			2014			2015			2016			2017		
		DO (mg/l)	BOD(mg/l)	Total Coliform (MPN/100ml)	DO (mg/l)	BOD(mg/l)	Total Coliform (MPN/100ml)	DO (mg/l)	BOD(mg/l)	Total Coliform (MPN/100ml)	DO (mg/l)	BOD(mg/l)	Total Coliform (MPN/100ml)	DO (mg/l)	BOD(mg/l)	Total Coliform (MPN/100ml)
1	U/s Ramganga near Agwanpur, Distt. Moradabad	6.5	3.9	-	6.6	4.4	23520	6.4	3.4	29091	7.6	2.8	35055	7.2	3.0	43167
2	Moradabad Rampur road bridge, Moradabad	4.7	8.3	-	3.9	8.7	615400	3.6	8.8	878545	4.7	7.7	577845	3.7	9.2	98333
3	D/s Ramganga, Shahabad Rampur	4.5	8.9	-	3.4	10.8	105818	4.2	8.9	78818	4.8	6.4	169818	4.6	6.8	177500
4	U/s Ramganga Kapurpur village, Meerganj, bareilly	6.3	5.8	-	6.0	5.0	34667	6.7	3.1	36333	7.1	1.9	33750	6.8	1.5	31667
5	D/s Ramganga FBD road bridge Shahjahapur	7.0	3.4	-	7.0	2.9	20667	7.2	2.4	24083	7.7	1.5	22667	7.8	1.2	24583
6	Ramganga at Kannauj	8.4	5.1	8250	7.1	3.7	4742	7.8	4.9	5475	7.4	5.1	5775	8.0	4.8	8983

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)

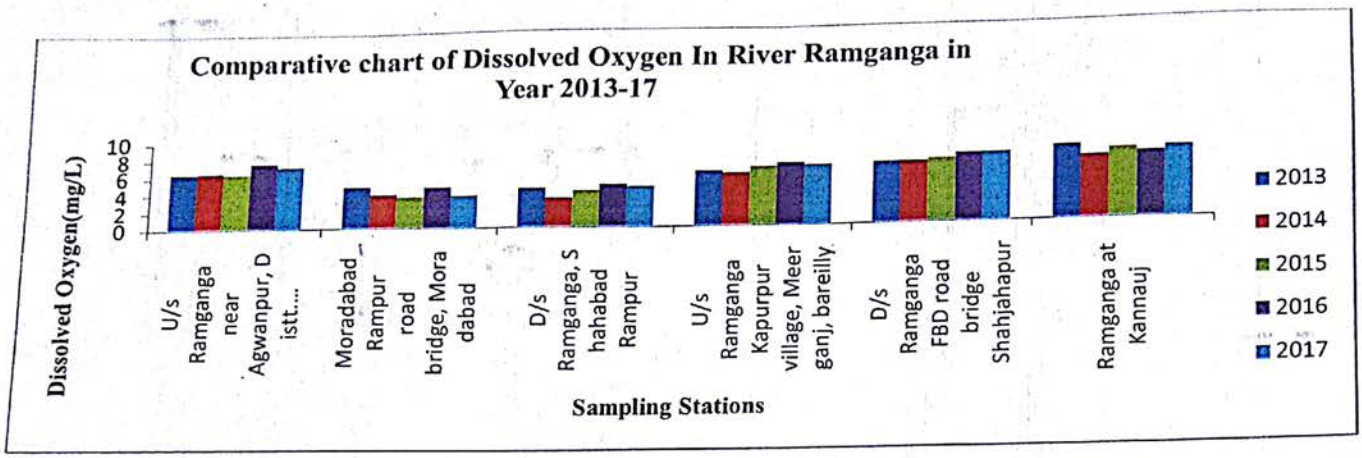
C = Drinking water source after conventional treatment and disinfection

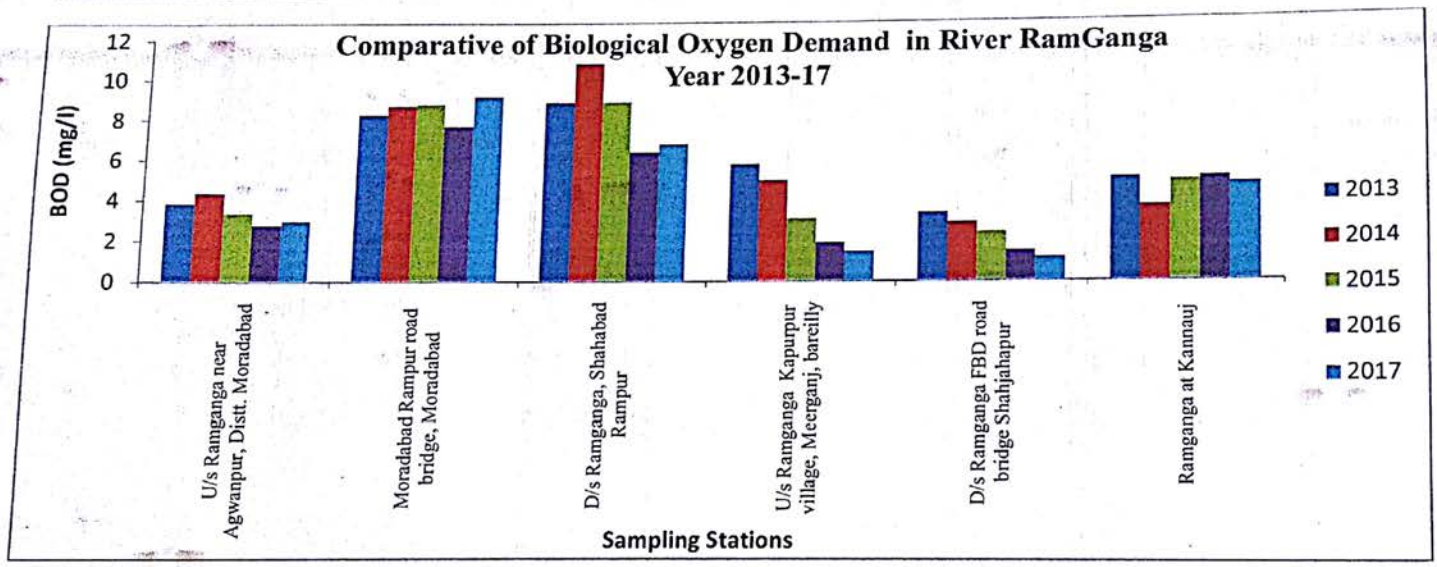
D = Propagation of wild life and fisheries.

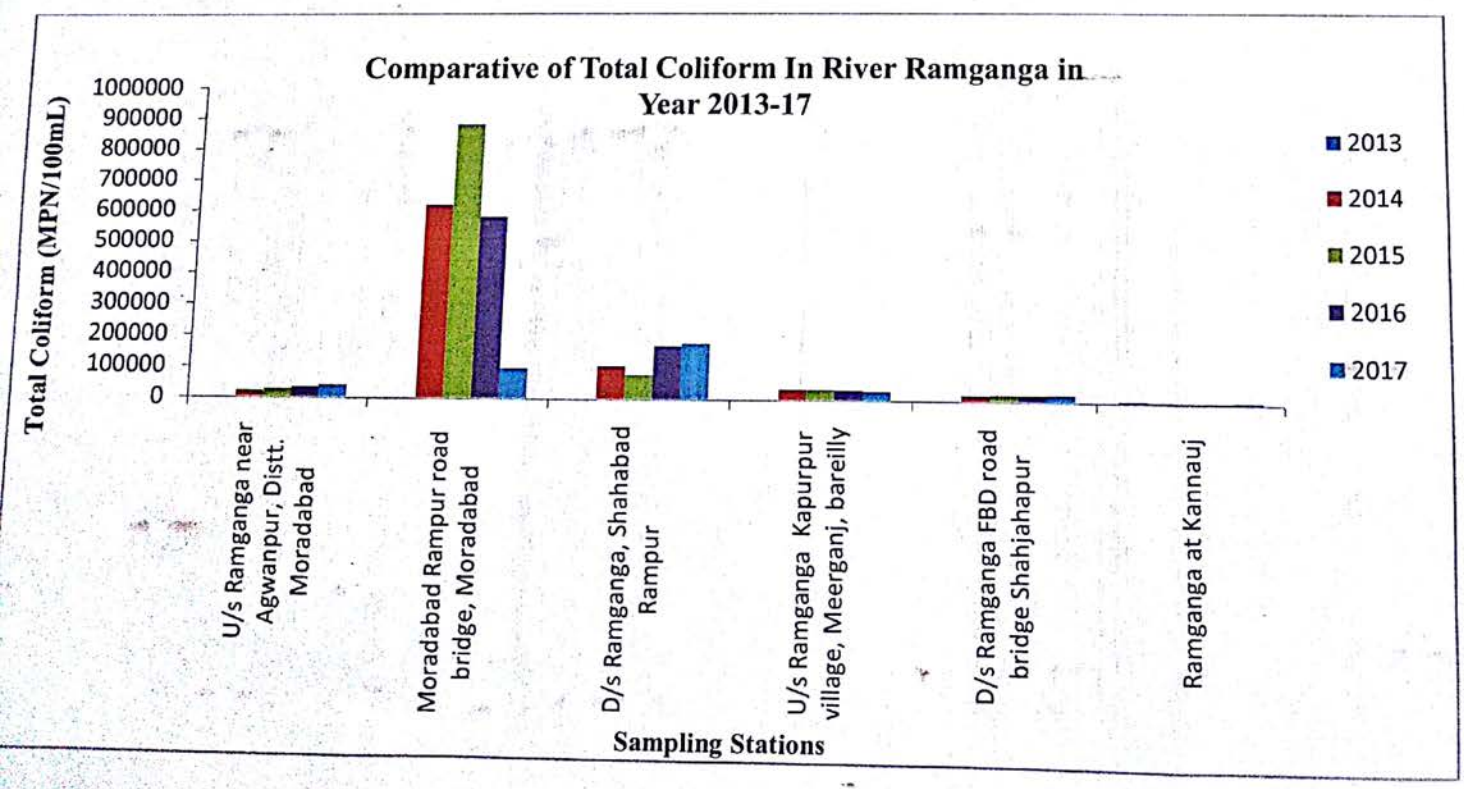
E = Irrigation, Industrial cooling, controlled waste disposal

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

Source: http://www.cpcb.nic.in/Water_Quality_Criteria.php







Status of Water Quality of River Ramganga in Uttar Pradesh

Year 2018 (JAN –JUNE)

- The River Ramganga originates from Paudi Garhwal of Uttarakhand and finally meets in River Ganga at Kannauj. During its course it flows through Moradabad, Rampur, Bareilly and Shahjahanpur.
- Uttar Pradesh Pollution Control Board has been continuously conducting water quality of River Ramganga through Boards own resources at 05 stations and at 01 station under National Water Quality Monitoring Programme.
- These sampling points are located in Moradabad, Rampur, Bareilly, Shahjahanpur and Kannauj district.
- Average data of Dissolved Oxygen (DO), Biochemical Oxygen Demand (BOD) and Total Coliform (TC) values obtained from Water Quality Monitoring during 2018 indicates that-

  Water quality at all sampling stations falls under category-D i,e water is fit for Fish Culture and wild life propagation.

WATER QUALITY OF RIVER RAMGANGA IN UTTAR PRADESH -2018

S.No	Month	U/s Ramganga near Agwanpur, Distt. Moradabad			Moradabad Rampur road bridge, Moradabad			D/s Ramganga, Shahabad Rampur			U/s Ramganga Kapurpur village, Meerganj, bareilly			D/s Ramganga FBD road bridge Shahjahapur			Ramganga at Kannauj		
		Parameter			Parameter			Parameter			Parameter			Parameter			Parameter		
		DO (mg/l)	BOD(mg/l)	Total Coliform (MPN/100ml)	DO (mg/l)	BOD(mg/l)	Total Coliform (MPN/100ml)	DO (mg/l)	BOD(mg/l)	Total Coliform (MPN/100ml)	DO (mg/l)	BOD(mg/l)	Total Coliform (MPN/100ml)	DO (mg/l)	BOD(mg/l)	Total Coliform (MPN/100ml)	DO (mg/l)	BOD(mg/l)	Total Coliform (MPN/100ml)
1	January	7.8	3.0	54000	5.3	6.0	350000	5.4	5.0	160000	8.0	1.5	33000	8.9	1.1	26000	10.3	4.9	4900
2	February	8.2	3.4	28000	5.6	6.2	540000	5.6	6.0	220000	8.0	1.2	34000	9.3	0.9	33000	9.3	4.4	4700
3	March	6.8	3.0	14000	4.8	6.0	1600000	5.6	6.6	160000	7.4	1.3	32000	8.4	0.9	22000	10.2	4.8	5200
4	April	6.6	4.0	28000	3.4	10.0	920000	3.8	8.0	160000	6.5	1.6	39000	7.8	1.1	26000	10.8	4.6	4900
5	May	7.3	1.8	35000	3.5	5.8	350000	5.4	4.6	92000	6.9	1.3	33000	8.6	0.9	23000	9.4	5.0	5800
6	June	7.5	2.0	28000	7.4	4.8	540000	3.4	4.0	220000	6.1	1.4	34000	7.8	0.8	22000	8.9	4.7	4900
7	July																		
8	August																		
9	September																		
10	October																		
11	November																		
12	December																		
Average		7.4	2.9	31167	5.0	6.5	716667	4.9	5.7	168667	7.2	1.4	34167	8.5	1.0	25333	9.8	4.7	5067

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)

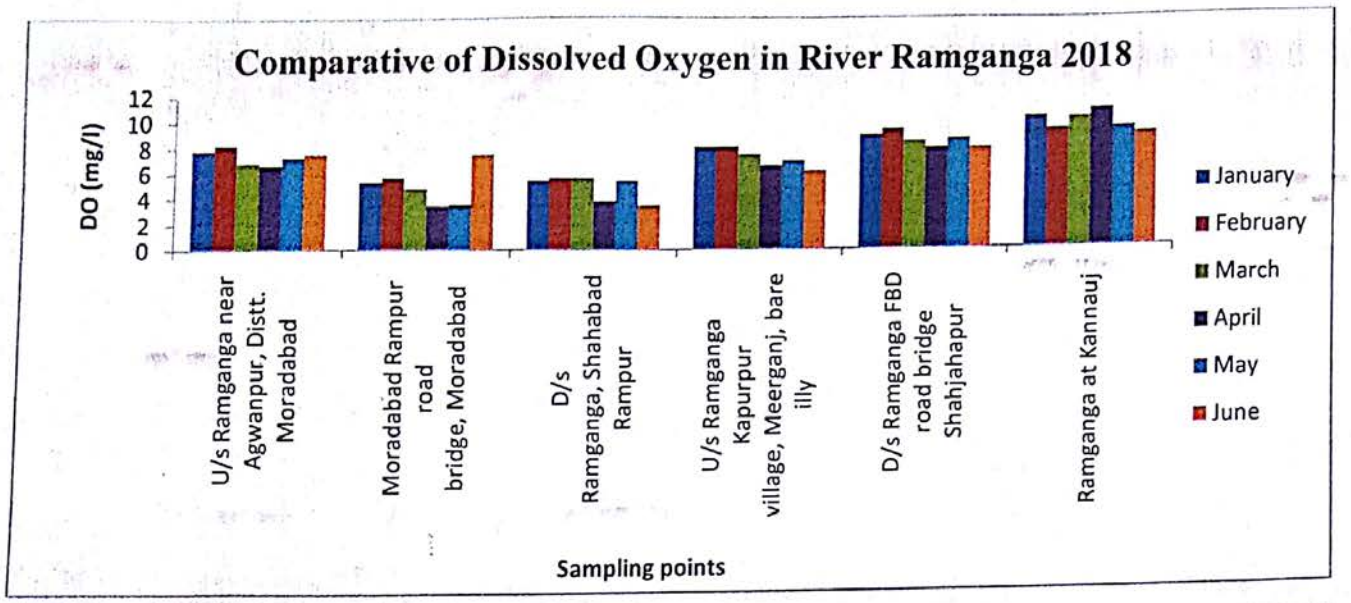
C = Drinking water source after conventional treatment and disinfection

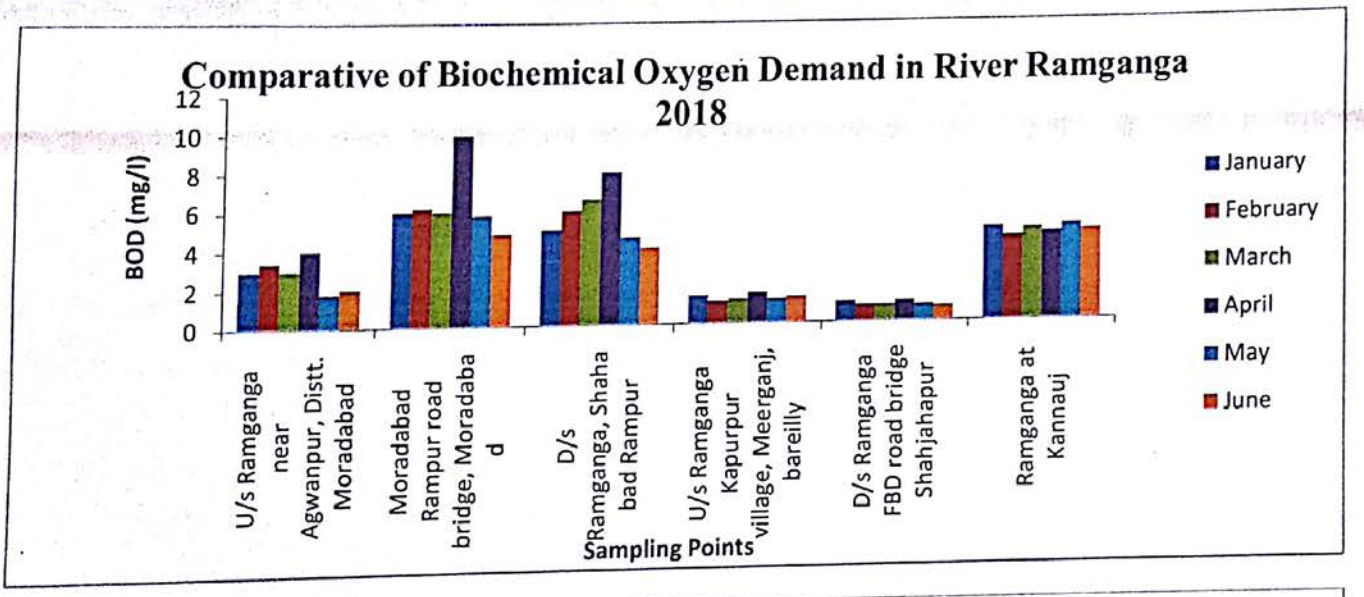
D = Propagation of wild life and fisheries.

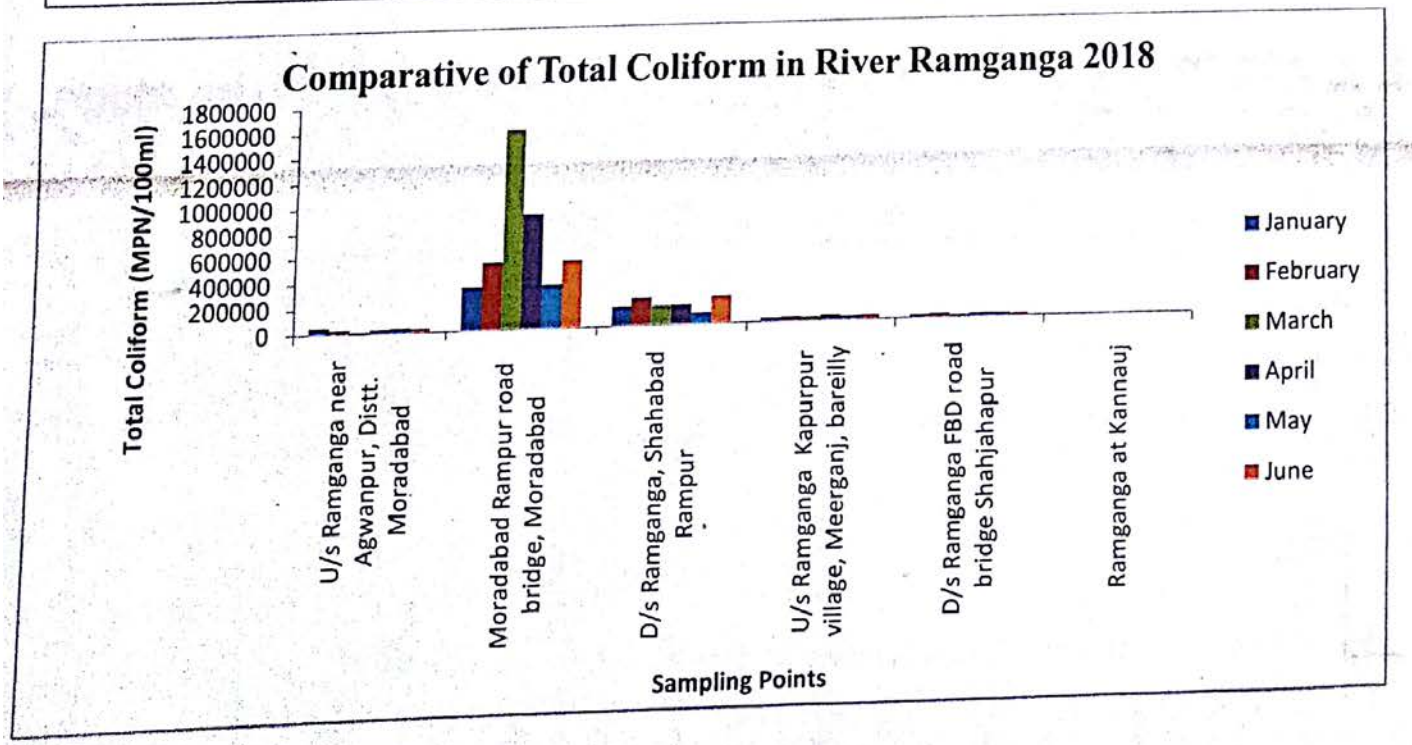
E = Irrigation, Industrial cooling, controlled waste disposal

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

Source: http://www.cpcb.nic.in/Water_Quality_Criteria.php







Status of Water Quality of River Kali (East) in Uttar Pradesh

Year 2013-2017

- River Kali (East) is a tributary of River Ganga and originates from Antwada village of Muzaffarnagar and passes through Meerut, Bulandshahar, Aligarh, flows approximately 500 Km and finally meets river Ganga near Madhopur village at Kannauj. Initially river flows like a small drain with water from seepage and natural resources, with minimum water and flourish only in rainy season.
- U.P. Pollution Control Board has been monitoring water quality of river Kali once in a month at one station under National Water Monitoring Programme (NWMP) and at 09 stations through Board resources.
- These sampling stations are located in Meerut, Ghaziabad, Bulandshahar, Aligarh, Kasganj and Kannauj district.
- Average data of Dissolved Oxygen (D.O.), Biochemical Oxygen Demand (B.O.D.) and Total Coliform (T.C.) values obtained after monitoring of water quality of river from year 2013 to 2017 indicates that:-

  Water Quality of River at Kannauj falls under category 'D' i.e. water is fit for fish propagation
- At remaining 09 monitoring stations, Saini-Mawana Road, Garh Road Meerut, Kharkhoda-Parikshit-Garh Road Meerut, Babugarh Ghaziabad, Devipura-Bulandshahar, Mohan Kuteer-Bulandshahar, Ramghat Road (Before Bridge), Atrauli Aligarh and Nadrai gate, Kasganj due to low values of DO (below 4mg/l) water quality is suitable for irrigation purposes (Categary-E).
- The higher Total coliform values may be due to the direct discharge of untreated Sewage & Industrial effluent into the river.

Water Quality of River Kali (East) in UP
Year 2013-2017

S No	Sample Collection Point	2013			2014			2015			2016			2017		
		DO (mg/l)	BOD(mg/l)	Total Coliform (MPN/100ml)	DO (mg/l)	BOD(mg/l)	Total Coliform (MPN/100ml)	DO (mg/l)	BOD(mg/l)	Total Coliform (MPN/100ml)	DO (mg/l)	BOD(mg/l)	Total Coliform (MPN/100ml)	DO (mg/l)	BOD(mg/l)	Total Coliform (MPN/100ml)
1	Saini-Mawana Road, Meerut	Nil	51.3	167272	Nil	46.3	140000	Nil	46.7	130000	Nil	52.3	135833	Nil	65.4	135000
2	Garh Road, Meerut	Nil	55.0	261666	Nil	60.3	190833	Nil	56.4	164167	Nil	56.3	165833	Nil	65.8	171667
3	Kharkhoda Parikshit Road, Meerut	Nil	75.5	288250	Nil	70.1	224167	Nil	66.5	220833	Nil	63.7	230000	Nil	72.4	203333
4	Babugarh, Ghaziabad	Nil	79.4	242500	Nil	83.6	238333	Nil	72.8	221667	Nil	44.6	163750	Nil	60.6	120625
5	U/s Devipura, Bulandshahar	Nil	60.0	207500	Nil	75.8	231667	0.2	61.3	267600	Nil	73.1	269167	Nil	53.8	227917
6	D/s Mohan Kuter Bulandshahar	Nil	65.2	220000	Nil	80.7	259167	0.2	54.1	218450	Nil	62.7	240833	Nil	59.1	193750
7	U/s Kali River before wave disttlary, Ramghat, Atruali, Aligarh	0.1	280.0	-	Nil	334	-	Nil	384.3	-	Nil	307.3		Nil	126.3	-
8	*D/s Kali River after wave disttlary, Ramghat, Atruali, Aligarh	-	-	-	-	-	-	Nil	402.0	-	Nil	333.2	-	Nil	140.2	-
9	Nadrai Gate, Kasganj, Kashiram	0.2	283.1	-	Nil	313	-	Nil	368.8	-	2.1	300.0	-	Nil	145.9	-
10	U/S Kannauj, Kanpur	7.7	4.9	5025	6.4	4.8	4992	7.2	4.2	4533	7.6	5.2	6042	7.6	8.5	6508

*** sampling point started from 2015.**

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)

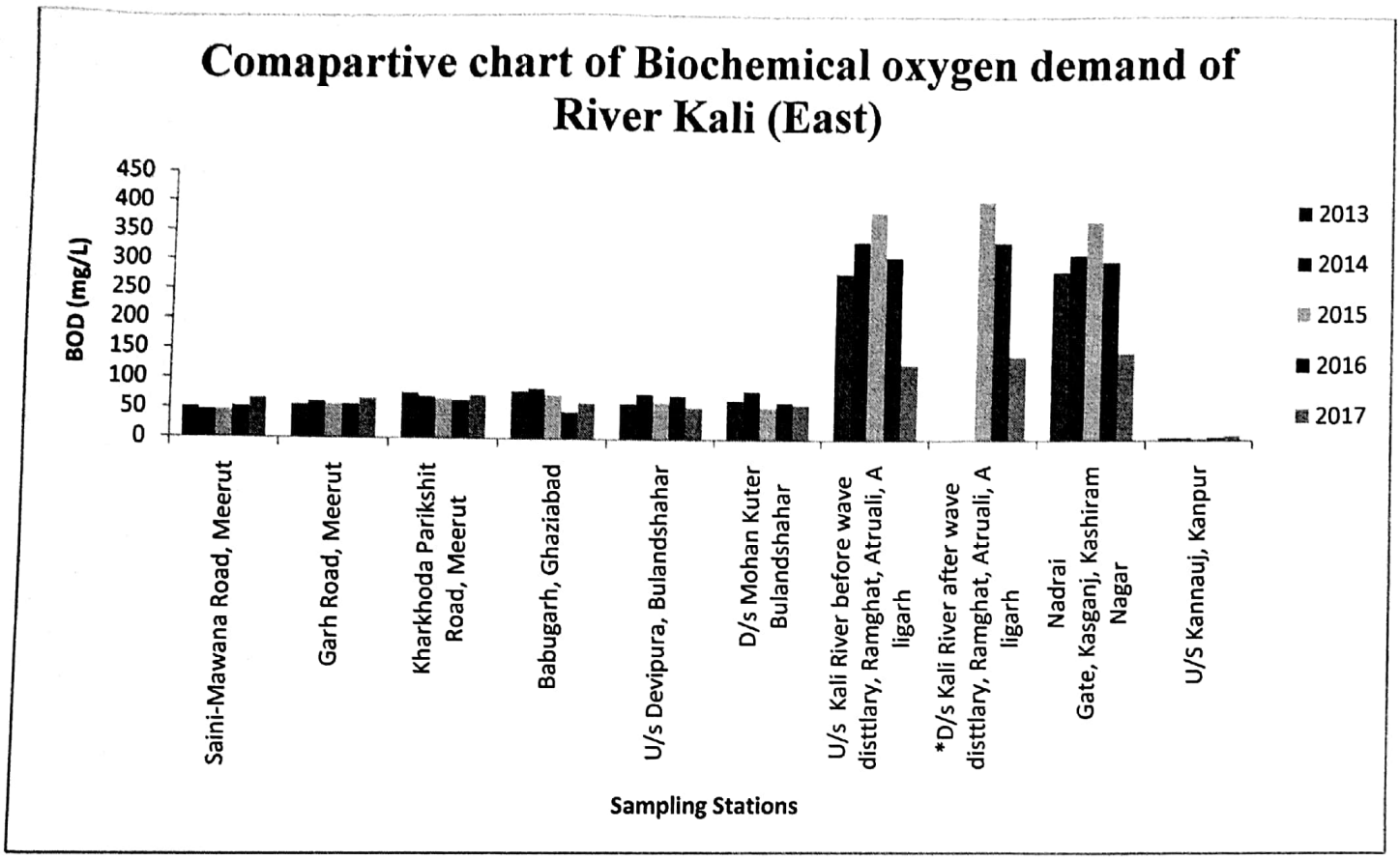
C = Drinking water source after conventional treatment and disinfection

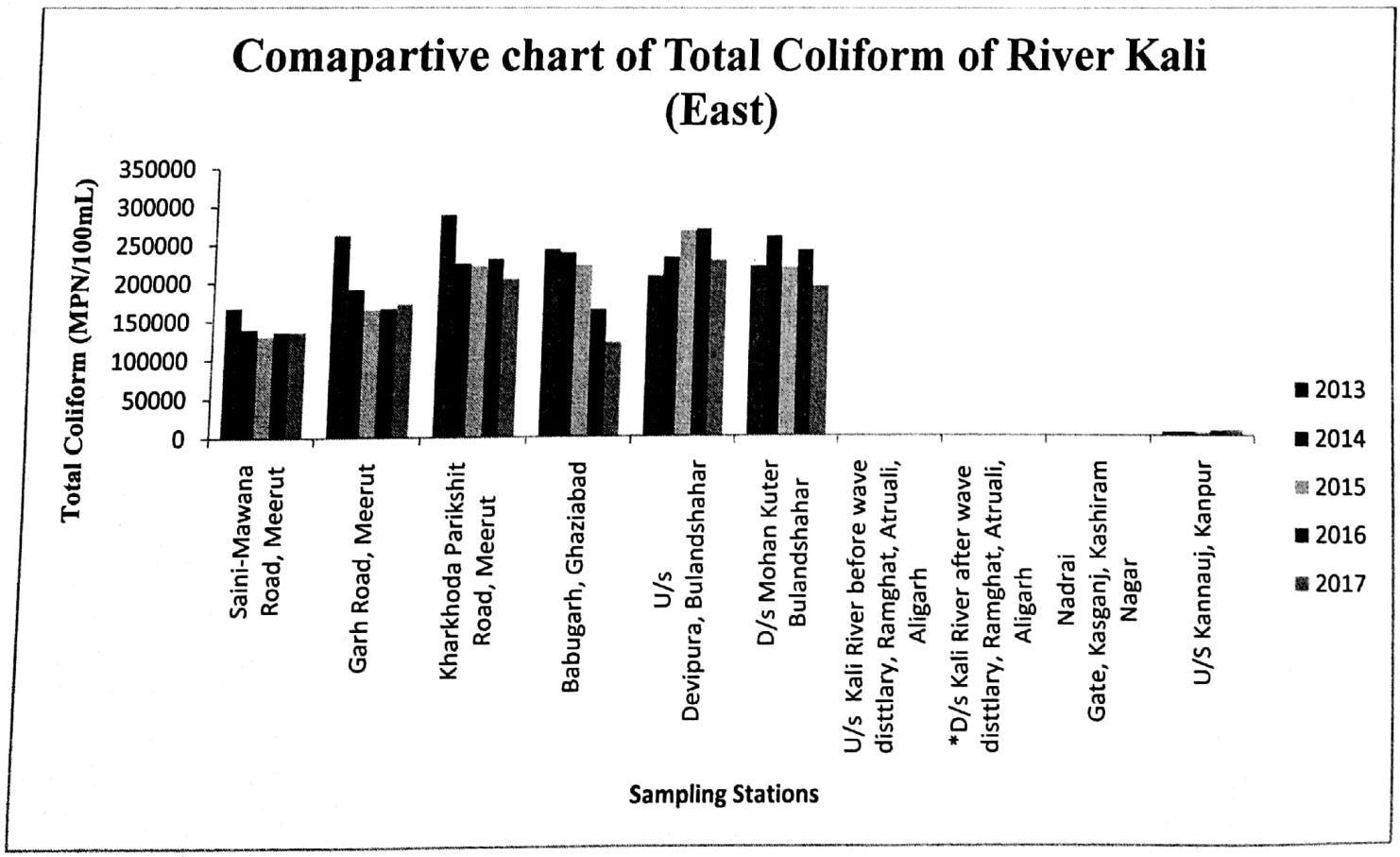
D = Propagation of wild life and fisheries.

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





Status of Water Quality of River Kali (East) in Uttar Pradesh

Year 2018 (January to June)

- River Kali (East) is a tributary of River Ganga and originates from Antwada village of Muzaffarnagar and passes through Meerut, Bulandshahar, Aligarh, flows approximately 500 Km and finally meets river Ganga near Madhopur village at Kannauj. Initially river flows like a small drain with water from seepage and natural resources, with minimum water and flourish only in rainy season.
- U.P. Pollution Control Board has been monitoring water quality of river Kali once in a month at one station under National Water Monitoring Programme (NWMP) and at 09 stations through Board resources.
- These sampling stations are located in Meerut, Ghaziabad, Bulandshahar, Aligarh, Kasganj and Kannauj district.
- Average data of Dissolved Oxygen (D.O.), Biochemical Oxygen Demand (B.O.D.) and Total Coliform (T.C.) values obtained after monitoring of water quality of river in year Year 2018 (January to June) indicates that:-
- Water Quality of River at Kannauj falls under category 'D' i.e. water is fit for fish propagation
- At remaining 09 monitoring stations, Saini-Mawana Road, Garh Road Meerut, Kharkhoda-Parikshit-Garh Road Meerut, Babugarh Ghaziabad, Devipura-Bulandshahar, Mohan Kuteer-Bulandshahar, Ramghat Road (Before Bridge), Atrauli Aligarh and Nadrai gate, Kasganj due to low values of DO (below 4mg/l) water quality is suitable for irrigation purposes (Categary-E).
- The higher Total coliform values may be due to the direct discharge of untreated Sewage & Industrial effluent into the river.

Water Quality of River Kali (East) in U.P
Year- 2018

S.No	Month	D/s M/s New Bananza, paper mills vill. , Saini- Mawana Road, Meerut			Garh Road, Meerut			Kharkhoda-Prikshit Garh Road, Meerut		
		DO (mg/l)	BOD(mg/l)	Total Coliform (MPN/100ml)	DO (mg/l)	BOD(mg/l)	Total Coliform (MPN/100ml)	DO (mg/l)	BOD(mg/l)	Total Coliform (MPN/100ml)
1	January	Nil	52.0	110000	Nil	64.0	120000	Nil	60.0	140000
2	February	Nil	56.0	140000	Nil	64.0	150000	Nil	62.0	120000
3	March	Nil	58.0	120000	Nil	68.0	140000	Nil	64.0	140000
4	April	Nil	69.0	170000	Nil	74.0	110000	Nil	66.0	140000
5	May	Nil	66.0	140000	Nil	70.0	120000	Nil	68.0	150000
6	June	Nil	68.0	120000	Nil	72.0	140000	Nil	74.0	210000
7	July									
8	August									
9	September									
10	October									
11	November									
12	December									
Average		Nil	61.5	133333	Nil	68.7	130000	Nil	65.7	150000

S.No	Month	Babugarh, Gaziabad			U/s Devipura, Bulandshahar			D/s Mohan Kuteer Bulandshahar		
		DO (mg/l)	BOD(mg/l)	Total Coliform (MPN/100ml)	DO (mg/l)	BOD(mg/l)	Total Coliform (MPN/100ml)	DO (mg/l)	BOD(mg/l)	Total Coliform (MPN/100ml)
1	January	Nil	67.2	110000	Nil	44.0	220000	Nil	48.0	90000
2	February	Nil	56.0	120000	Nil	42.0	230000	Nil	44.0	180000
3	March	Nil	60.0	110000	Nil	44.0	240000	Nil	46	190000
4	April	Nil	63.0	120000	Nil	46.0	240000	Nil	44.0	190000
5	May	Nil	73.8	130000	Nil	48.0	-	Nil	46.0	-
6	June	Nil	63.3	140000	Nil	46.0	240000	Nil	48.0	220000
7	July									
8	August									
9	September									
10	October									
11	November									
12	December									
Average		Nil	63.9	121667	Nil	45.0	234000	Nil	46.0	174000

S.No	Month	U/s Kali river before wave disttlary Ramghat road, Atrauli, Aligarh			D/s Kali River after wave disttlary Ramghat road, Atrauli, Aligarh			Nadrai Gate, Kasganj			U/S *Kannauj*		
		DO (mg/l)	BOD(mg/l)	Total Coliform (MPN/100ml)	DO (mg/l)	BOD(mg/l)	Total Coliform (MPN/100ml)	DO (mg/l)	BOD(mg/l)	Total Coliform (MPN/100ml)	DO (mg/l)	BOD(mg/l)	Total Coliform (MPN/100ml)
1	January	Nil	52.0	-	Nil	56.0	-	1.5	52.0	-	10.1	7.0	6300
2	February	Nil	-	-	Nil	62.0	-	-	-	-	7.5	6.6	5800
3	March	Nil	68.0	-	Nil	74.0	-	Nil	54.0	-	9.5	6.4	6300
4	April	Nil	180.8	-	Nil	190.0	-	Nil	52.0		10.5	6.0	7000
5	May	Nil	64.0	-	Nil	70.0	-	Nil	58.0		8.7	6.8	6300
6	June	Nil	58.0	-	Nil	62.0	-	Nil	54.0		11.8	6.4	5800
7	July												
8	August												
9	September												
10	October												
11	November												
12	December												
Average		Nil	84.6	-	Nil	85.7	-	Nil	54.0	-	9.7	6.5	6250

	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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