



केन्द्रीय प्रदूषण नियंत्रण बोर्ड  
CENTRAL POLLUTION CONTROL BOARD  
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, भारत सरकार  
MINISTRY OF ENVIRONMENT, FOREST & CLIMATE CHANGE, GOVT. OF INDIA

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Date: July 02, 2024

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To,

The Member Secretary,  
Uttar Pradesh Pollution Control Board,  
Building No. TC-12V, Vibhuti Khand,  
Gomti Nagar, Lucknow-226 010

**DIRECTIONS UNDER SECTION 18 (1) (b) OF THE WATER (PREVENTION AND CONTROL OF POLLUTION) ACT, 1974 REGARDING DISCHARGE OF INDUSTRIAL EFFLUENT IN DRAINS OF KANPUR**

WHEREAS, the Central Board, has delegated powers vested under Section 18 (1) (b) of the Water (Prevention & Control of Pollution) Act, 1974 to the Member Secretary, Central Pollution Control Board (CPCB) vide its resolution made in 196<sup>th</sup> Board meeting dated 29<sup>th</sup> March, 2022 to issue direction under Section 18 (1) (b) of the Water (Prevention & Control of Pollution) Act, 1974 to State Board (s); and

WHEREAS, amongst others, under section 16 of the Water (Prevention and Control of Pollution) Act, 1974, one of the functions of the Central Pollution Control Board, constituted under the Water (Prevention and Control of Pollution) Act, 1974 is to coordinate activities of the State Pollution Control Boards & Pollution Control Committees to provide technical assistance and guidance to SPCBs/PCCs; and

WHEREAS, amongst others, under section 17 of the Water (Prevention and Control of Pollution) Act, 1974, one of the functions of the State Pollution Control Board, constituted under the Water (Prevention & Control of Pollution) Act, 1974 is to plan a comprehensive programme for the prevention, control or abatement of pollution of streams and wells located in the State and to secure the execution thereof; and

WHEREAS, under Section 25 of the Water (Prevention and Control of Pollution) Act, 1974, no person shall, without the previous consent of the State Pollution Control Board establish or take any steps to establish any industry, operation or process or any treatment or disposal system or any extension or addition thereto, which is likely to discharge sewage or trade effluent into a stream or well or sewer or on land; and

Contd.

‘परिवेश भवन’ पूर्वी अर्जुन नगर, दिल्ली-110032

Parivesh Bhawan, East Arjun Nagar, New Delhi - 110032

दूरभाष/Tel: 43102030, 22305792, वेबसाइट/Website : www.cpcb.nic.in

**WHEREAS**, the Central Government has notified standards for discharge of environmental pollutants from industries and common effluent treatment plants (CETPs), under the Environmental (Protection) Act, 1986 and rules framed there under, and

**WHEREAS**, the State Pollution Control Boards (SPCBs) and Pollution Control Committees (PCCs) are empowered to stipulate standards for discharge of environmental pollutants for various categories of industries and common effluent treatment plants (CETPs) more stringent than those notified by the Central Government, under the Environmental (Protection) Act, 1986 and rules framed there under; and

**WHEREAS**, the Hon'ble Supreme Court of India in WP (375 of 2012) passed a judgement dated 22/02/2017 that

*“the concerned SPCBs are mandated to carry out inspections, to verify, whether or not, each industrial unit regarding “consent to operate”, has a functional primary effluent treatment plant. Such of the industrial units, which have not been able to make their primary effluent treatment plant fully operational, within the notice period, shall be restrained from any further industrial activity. This direction may be implemented by requiring the concerned electricity supply and distribution agency, to disconnect the electricity connection of the defaulting industry. We therefore hereby further direct, that in case the concerned SPCBs make a recommendation to the concerned electrical supply and distribution agency/company, to disconnect electrical supply to an industry, for the reason that its primary effluent treatment plant is not functional, it shall honor such recommendation, and shall disconnect the electricity supply to such defaulting industrial concern, forthwith,”*

**AND WHEREAS**, water quality of River Ganga and its tributaries has been threatened due to disposal of untreated sewage from drains and discharge of untreated/partially treated effluents from industries which are mixed with drain waste water and reaching to River Ganga directly or via its tributaries; and

**WHEREAS**, the monitoring of 29 drains identified in Kanpur (27) and Unnao (2) is being carried out on fortnightly (weekly till Oct, 2022) basis by joint teams comprising officials from CPCB & UPPCB (Uttar Pradesh Pollution Control Board); and

**WHEREAS**, based on weekly monitoring data of rivers and drains during 19/03/2019 to 16/04/2019, CPCB issued direction dated 08/05/2019 under section 18 (1) (b) of Water (Prevention and Control of Pollution) Act, 1974 to the UPPCB for restoration of water quality of River Ganga in Kanpur-Unnao region; and

**WHEREAS**, based on weekly monitoring data of rivers and drains during 19/03/2019 to 07/05/2019, CPCB issued direction dated 07/06/2019 under section 18 (1) (b) of Water

(Prevention and Control of Pollution) Act, 1974 to the UPPCB for restoration of water quality of River Ganga in Kanpur-Fatehpur region; and

**WHEREAS**, based on inventorization of pollution source of drains of Kanpur & Unnao carried out by officials of CPCB during 28/05/2019 to 11/06/2019, CPCB issued directions dated 02/07/2019 under section 18 (1) (b) of Water (Prevention and Control of Pollution) Act, 1974 to control pollution in drains discharging wastewater into Rivers Ganga and Pandu in Kanpur-Unnao region; and

**WHEREAS**, CPCB vide DO letter dated 06/08/2019 requested the Chief Secretary, Government of Uttar Pradesh to ensure effective action against polluting activities and to direct concerned agencies including UPPCB to take effective action against polluting activities; and

**WHEREAS**, based on weekly monitoring of drains from 31/12/2019 to 07/01/2020, CPCB issued directions dated 21/02/2020 under section 18 (1) (b) of Water (Prevention and Control of Pollution) Act, 1974 to the UPPCB to control discharge of industrial effluent in drains of Kanpur; and

**WHEREAS**, CPCB vide DO letter dated 03/03/2020 requested the Principal Secretary, Environment, Forest & Climate Change (EF&CC) Department, Government of Uttar Pradesh to direct concerned agencies including UPPCB to take effective action against polluting activities; and

**WHEREAS**, based on weekly monitoring data from March, 2019 to March, 2020, CPCB prepared a report on “Drain, sewage and tannery effluent management at Kanpur & Unnao”. The report was forwarded to:

1. UPPCB, State Mission for Clean Ganga-Uttar Pradesh (SMCG-UP) and District Magistrate, Kanpur vide DO letter dated 28/09/2020 for taking necessary action; and
2. Chief Secretary, Government of Uttar Pradesh vide DO letter dated 16/10/2020 to direct concerned agencies including UPPCB to take effective action against polluting activities.

**AND WHEREAS**, based on weekly monitoring data from October, 2021 to June, 2022, CPCB prepared a report on “Environment status and Issues of Kanpur district” and forwarded the report vide DO letter dated 22/08/2022 to UPPCB and District Magistrate, Kanpur to deliberate upon the report along with the concerned agencies and prepare a time-bound action plan; and

**WHEREAS**, CPCB issued letters dated 06/12/2021, 02/11/2022, 25/11/2022, 19/12/2022, 07/03/2023, 20/03/2023, 05/04/2023, 12/05/2023, 27/06/2023, 16/08/2023, 19/09/2023, 13/10/2023 and 01/01/2024 to UPPCB to control the discharge of industrial effluent into drains and ensure no wastewater discharge from tapped drains into river Ganga; and

**WHEREAS**, no action taken report has been received so far from UPPCB and District Magistrate, Kanpur; and

**WHEREAS**, based on data of ten rounds of fortnightly monitoring carried out on 30/10/2023, 06/11/2023, 20/11/2023, 11/12/2023, 26/12/2023, 29/01/2024, 19/02/2024, 04/03/2024, 08/04/2024 and 22/04/2024, following observations are made:

1. In Kanpur, 27 drains discharge into Rivers Ganga and Pandu. Out of 27 drains, 18 drains have gradient towards River Ganga and 9 drains have gradient towards River Pandu. Out of 18 drains discharging wastewater into River Ganga, 11 drains are tapped. Out of 11 tapped drains, overflow was observed in 7 tapped drains namely Muir Mill (24.9 MLD), Bhagwatdas Ghat (8.6 MLD), Budhiya Ghat (1.5-2.1 MLD), Permiya (11.1-78.3 MLD), Sheetla Bazar (7.9-35.8 MLD), Parmath (5.5 MLD) and Sisamau drain.
2. Water quality of river Ganga, from Bithoor to Fatehpur, was meeting the primary criteria for bathing w.r.t. DO at all monitoring locations on all occasions. However, the water quality of river Ganga was not meeting primary criteria for bathing w.r.t. pH, BOD and FC on different occasions except river Ganga before confluence with river Pandu at Daundiya khera village, which was meeting the primary criteria for bathing w.r.t. pH. The river monitoring data is annexed.
3. Industrial pollution was observed in following drains in Kanpur:

**River Ganga:**

**a. Ranighat drain**

- i. Ranighat drain carries wastewater from residential areas of Kohna and Ranibagcha.
- ii. High BOD (394 mg/l) and COD (765 mg/l) were observed in Ranighat drain on 04/03/2024 indicating discharge from industrial/commercial activities.

**b. Budhiya Ghat drain**

- i. Budhiya Ghat drain carries tannery wastewater from Jajmau industrial area along with sewage. The drain is tapped to PS-4 (Budhiya Ghat) however, overflow from the drain reaches to River Ganga.
- ii. Industrial pollution in this drain was observed during multiple monitoring occasions:
  - High colour was observed on 30/10/2023 (500 Hazen) and 20/11/2023 (300 Hazen).
  - High BOD was observed on 30/10/2023 (1845 mg/l), 06/11/2023 (695 mg/l) and 20/11/2023 (448 mg/l).
  - High COD was observed on 30/10/2023 (3139 mg/l), 06/11/2023 (986 mg/l) and 20/11/2023 (809 mg/l).

- High concentration of Total Chromium was observed on 30/10/2023 (26.6 mg/l), 06/11/2023 (33.2 mg/l) and 20/11/2023 (14.6 mg/l).

**c. Sheetala Bazar drain**

- Sheetala Bazar drain carries sewage as well as tannery wastewater from Jajmau industrial area. A part of effluent generated from Jajmau industrial area is pumped to CETP Jajmau however the rest is discharged into River Ganga via this drain.
- Industrial pollution in this drain was observed during multiple monitoring occasions:
  - High colour was observed on 20/11/2023 (200 Hazen) and 22/04/2024 (250 Hazen).
  - High BOD was observed on 30/10/2023 (702 mg/l), 06/11/2023 (468 mg/l), 20/11/2023 (924 mg/l), 04/03/2024 (412 mg/l) and 22/04/2024 (572 mg/l).
  - High COD was observed on 30/10/2023 (1314 mg/l), 06/11/2023 (935 mg/l), 20/11/2023 (1297 mg/l), 04/03/2024 (906 mg/l) and 22/04/2024 (1091 mg/l).
  - High concentration of Total Chromium was observed on 30/10/2023 (7.6 mg/l), 06/11/2023 (23.8 mg/l), 20/11/2023 (34.6 mg/l) and 04/03/2024 (28.1 mg/l).

**d. SPS Jajmau drain**

- The sewage from Sewage Pumping Station (SPS) located at Jajmau is transferred to Jajmau STPs however, due to fault in sewage line at the SPS, overflow reaches River Ganga via this drain.
- High BOD (326 mg/l), COD (961 mg/l) and Total Chromium (10.45 mg/l) were observed in SPS Jajmau drain on 20/11/2023 indicating that tanneries located at Jajmau tannery cluster are discharging untreated effluent into drains.

**e. Rooma drain**

- Rooma drain is a channel of irrigation canal originated from Jajmau CETP & STP complex and later Rooma drain from 1.55 MLD CETP Rooma (member units-textiles) joins this channel. The drain ultimately meets River Ganga near Jamda village.
- Industrial pollution in Rooma drain was observed on different monitoring occasions:
  - High colour (250 Hazen) was observed on 30/10/2023.
  - High concentration of Total Chromium was observed on 29/01/2024 (2.83 mg/l) and 19/02/2024 (3.97 mg/l).



**River Pandu:**

Out of 9 drains having gradient towards River Pandu, 6 drains are tapped. Out of 6 tapped drains, overflow was observed in 4 drains namely Halwakhanda (18.3-108.7 MLD), Ganda (26.6-162.9 MLD), COD (47.4-145.2 MLD) and Panki drain (0.1-1 MLD). In Shiv Nagar-Pipauri drain, high colour on 06/11/2023 (500 Hazen), 19/02/2024 (300 Hazen) & 22/04/2024 (750 Hazen) and high COD (758 mg/l) on 19/02/2024 were observed. In Sagarपुरi drain, high colour (200 Hazen) was observed on 19/02/2024. High values of colour and COD in these drains indicate industrial pollution.

4. In Unnao, 2 untapped drains discharge into River Ganga. Out of these 2 drains, industrial pollution in City Jail drain was observed. This drain carries industrial effluent from slaughter houses, and tannery, textile, chemical, steel industries from Magarwara, Akrapur and Leather Technology Park, Banthar. Industrial pollution in this drain was observed on multiple monitoring occasions:
  - a. High colour (200 Hazen) was observed on 06/11/2023, 11/12/2023 and 22/04/2024.
  - b. High BOD was observed on 30/10/2023 (302 mg/l), 26/12/2023 (297 mg/l), 19/02/2024 (281 mg/l), 04/03/2024 (407 mg/l) and 08/04/2024 (388 mg/l).
  - c. High COD was observed on 11/12/2023 (601 mg/l), 26/12/2023 (740 mg/l), 29/01/2024 (514 mg/l), 19/02/2024 (741 mg/l), 04/03/2024 (688 mg/l) and 08/04/2024 (600 mg/l).
  - d. High concentration of Total Chromium was observed on 11/12/2023 (2.5 mg/l), 19/02/2024 (12.6 mg/l) and 04/03/2024 (4.46 mg/l).

**AND WHEREAS**, it is evident that industrial units located in the catchment area of the identified drains of Kanpur and Unnao regions are not implementing effluent treatment measures properly and discharging partially treated/untreated industrial effluent containing high BOD, COD, colour and total Chromium into River Ganga and its tributary River Pandu via drains which is ultimately deteriorating the water quality of these rivers; and

**NOW, THEREFORE**, in view of above mentioned observations and in exercise of the power conferred under section 18 (1) (b) of the Water (Prevention & Control of Pollution) Act, 1974, you are hereby directed to take appropriate measures including issuance of directions to ensure implementation of following pollution control measures in a time bound manner:

1. Uttar Pradesh Pollution Control Board (UPPCB) shall take immediate necessary action to effectively control all polluting sources contributing high BOD, COD, colour and total Chromium to the identified drains.
2. UPPCB shall direct the concerned authorities to ensure immediate repair of broken/damaged/temporary tapping provisions at drains and sewage pumping stations shall be operated regularly so that no wastewater is discharged through tapped drains.

3. UPPCB shall ensure that no industry disposes untreated/partially treated effluent not meeting prescribed standards into any drain so that River Ganga does not receive any coloured/untreated effluent.
4. UPPCB shall setup surveillance squads for tanneries and illegal industrial units and ensure that no illegal industrial activities are being carried out.
5. UPPCB shall take coercive action, as deemed fit, including levying of environmental compensation against the industries discharging partially treated/untreated industrial effluent and do not have adequate effluent treatment facilities to comply with the discharge norms and also on illegal industrial activities operating in the catchment of identified drains.


The action taken by UPPCB shall be intimated to CPCB within 30 days of receipt of this direction.



**(Bharat Kumar Sharma)**  
**MEMBER SECRETARY**

**Copy to:**

1. **Director General,** : For kind information,  
National Mission for Clean Ganga, please.  
Ministry of Jal Shakti (Department of Water Resources,  
River Development & Ganga Rejuvenation),  
Government of India,  
1<sup>st</sup> Floor, Major Dhyan Chand National Stadium,  
India Gate, New Delhi - 110002
2. **Additional Secretary (CP Division),** : For kind information,  
Ministry of Environment, Forest & Climate Change, please.  
Indira Paryavaran Bhawan,  
Jorbagh Road, New Delhi - 110003
3. **Project Director,** : For kind information  
**State Mission for Clean Ganga-Uttar Pradesh,** & necessary action,  
Plot No. 18, Sector 07, Gomti Nagar Rd, Sector 18, please.  
Gomti Nagar, Lucknow - 226010, Uttar Pradesh
4. **District Magistrate-Kanpur Nagar,** : For kind information  
District Magistrate Office, & necessary action,  
Collectorate, Civil Lines, please.  
Kanpur Nagar - 208001, Uttar Pradesh
5. **Regional Officer (Kanpur),** : For kind information  
5243, Avas Vikas, Phase-III, & necessary action,  
Sadbhavna Nagar, Kalyanpur, please.  
Kanpur-208017, Uttar Pradesh
6. **Regional Director,** : For kind information  
Regional Directorate, & necessary action,  
Central Pollution Control Board, please.  
PICUP Bhawan, Ground Floor, Vibhuti Khand,  
Gomti Nagar, Lucknow - 226010
7. **In-charge, IT Division, CPCB** : For uploading the  
direction on CPCB  
website, please.

  
(Bharat Kumar Sharma)  
MEMBER SECRETARY



**Monitoring data of rivers Ganga & Pandu (30/10/2023 to 22/04/2024)**

S. No.	Name of River & Locations	Date of monitoring	DO (mg/l)	Temp (°C)	pH	Colour (Hazen)	BOD (mg/l)	COD (mg/l)	Total Coliform (MPN/100 ml)	Fecal coliform (MPN/100 ml)	Total Cr (mg/l)	Cr (VI) (mg/l)	Cr (III) (mg/l)
1.	River Ganga at Bithoor, Kanpur	30.10.2023	8.7	27.0	8.03	10	2.5	8.2	7.8×10 <sup>3</sup>	2.0×10 <sup>3</sup>	<0.00056	NA	NA
		06.11.2023	8.6	25.0	6.62	5	2.2	10.3	2.0×10 <sup>3</sup>	<1.8	<0.00056	NA	NA
		20.11.2023	8.7	26	7.88	10	3.2	13.2	1.1×10 <sup>4</sup>	4.0×10 <sup>3</sup>	<0.00056	NA	NA
		11.12.2023	9	21	8.28	10	3.2	10.5	4.5×10 <sup>3</sup>	2.0×10 <sup>3</sup>	<0.00056	NA	NA
		26.12.2023	11.8	19.5	8.63	15	6.2	24.2	<1.8	<1.8	<0.00056	NA	NA
		29.01.2024	10.8	16	8.75	10	2.8	9.6	2.0×10 <sup>3</sup>	<1.8	<0.00056	NA	NA
		19.02.2024	8.1	20	8.2	15	5.3	19.7	7.8×10 <sup>2</sup>	2.0×10 <sup>2</sup>	<0.00056	NA	NA
		04.03.2024	8	20	7.86	15	3.1	11.5	<1.8	<1.8	0.002	NA	NA
		08.04.2024	7.8	26	8.07	10	1.5	5.6	<1.8	<1.8	RA	NA	RA
22.04.2024	8.2	28	7.98	10	2.5	9.5	2.0×10 <sup>3</sup>	<1.8	RA	NA	RA		
2.	River Ganga at Barrage d/s, Kanpur	30.10.2023	7.5	27.0	7.9	10	2.5	10.5	2.0×10 <sup>3</sup>	<1.8	<0.00056	NA	NA
		06.11.2023	8.4	25.0	7.2	5	1.5	7.7	7.8×10 <sup>3</sup>	2.0×10 <sup>3</sup>	<0.00056	NA	NA
		20.11.2023	8.5	26	7.97	5	2.6	11.2	1.3×10 <sup>4</sup>	4.5×10 <sup>3</sup>	<0.00056	NA	NA
		11.12.2023	8.8	21	8.45	10	2.9	14.3	1.3×10 <sup>4</sup>	4.5×10 <sup>3</sup>	<0.00056	NA	NA
		26.12.2023	10.7	20	8.75	20	9	36.1	<1.8	<1.8	<0.00056	NA	NA
		29.01.2024	10.8	17	8.68	15	3.2	10.9	2.3×10 <sup>4</sup>	7.8×10 <sup>3</sup>	<0.00056	NA	NA
		19.02.2024	7.8	21	8.35	15	4.6	17.5	3.3×10 <sup>3</sup>	1.3×10 <sup>3</sup>	<0.00056	NA	NA
		04.03.2024	6.9	20	7.81	15	3.7	15.1	<1.8	<1.8	0.003	NA	NA
		08.04.2024	8	26.1	8.18	10	1.8	8.3	<1.8	<1.8	RA	NA	RA
22.04.2024	8	28	8.09	10	2.7	11.7	4.0×10 <sup>3</sup>	2.0×10 <sup>3</sup>	RA	NA	RA		
3.	River Ganga at Shuklaganj u/s, Kanpur	30.10.2023	8	27	7.93	10	1	5.5	4.5×10 <sup>3</sup>	2.0×10 <sup>3</sup>	<0.00056	NA	NA
		06.11.2023	8.3	25	7.58	5	2.2	10.6	1.1×10 <sup>4</sup>	4.0×10 <sup>3</sup>	<0.00056	NA	NA
		20.11.2023	8.1	26	8.06	5	2.9	12.2	2.3×10 <sup>4</sup>	4.5×10 <sup>3</sup>	<0.00056	NA	NA
		11.12.2023	8.7	21	8.32	10	3.2	19.4	1.7×10 <sup>4</sup>	6.8×10 <sup>3</sup>	<0.00056	NA	NA
		26.12.2023	11.3	19.5	8.48	15	7.1	27.8	2.0×10 <sup>3</sup>	<1.8	<0.00056	NA	NA
		29.01.2024	6	16	8.59	10	3.3	10.8	7.8×10 <sup>3</sup>	4.5×10 <sup>3</sup>	<0.00056	NA	NA
		19.02.2024	7.3	20	7.87	15	5.1	19.2	7.8×10 <sup>2</sup>	4.5×10 <sup>2</sup>	<0.00056	NA	NA
		04.03.2024	7	20	7.77	15	3.6	12.9	<1.8	<1.8	0.01	NA	NA
		08.04.2024	7.7	26.3	7.98	15	2.2	7.3	4.5×10 <sup>3</sup>	2.0×10 <sup>3</sup>	RA	NA	RA
22.04.2024	8.5	29	8.15	10	2.2	7.3	7.9×10 <sup>4</sup>	4.9×10 <sup>4</sup>	RA	NA	RA		

S. No.	Name of River & Locations	Date of monitoring	DO (mg/l)	Temp (°C)	pH	Colour (Hazen)	BOD (mg/l)	COD (mg/l)	Total Coliform (MPN/100 ml)	Fecal coliform (MPN/100 ml)	Total Cr (mg/l)	Cr (VI) (mg/l)	Cr (III) (mg/l)
4.	River Ganga at Chandan ghat, Jajmau, Kanpur	30.10.2023	8.3	27	7.86	10	2.5	9.8	1.3×10 <sup>4</sup>	4.5×10 <sup>3</sup>	<0.00056	NA	NA
		06.11.2023	8	25	7.85	5	2.4	12.5	1.3×10 <sup>4</sup>	4.5×10 <sup>3</sup>	<0.00056	NA	NA
		20.11.2023	8.3	26	8.11	10	3.3	15.2	1.1×10 <sup>4</sup>	7.8×10 <sup>3</sup>	<0.00056	NA	NA
		11.12.2023	8.6	21	8.54	10	2.8	15.3	2.2×10 <sup>4</sup>	9.3×10 <sup>3</sup>	<0.00056	NA	NA
		26.12.2023	10.4	19.5	8.52	15	3.4	15.2	4.5×10 <sup>3</sup>	2.0×10 <sup>3</sup>	<0.00056	NA	NA
		29.01.2024	10.6	16	8.73	15	3.3	11.3	7.8×10 <sup>3</sup>	2.0×10 <sup>3</sup>	<0.00056	NA	NA
		19.02.2024	7.1	20	8.37	15	5.5	20.6	1.7×10 <sup>4</sup>	4.9×10 <sup>3</sup>	<0.00056	NA	NA
		04.03.2024	6.6	20	7.8	10	6	21.1	1.3×10 <sup>5</sup>	2.3×10 <sup>4</sup>	0.004	NA	NA
		08.04.2024	7.1	26	7.86	15	1.5	10.6	2.0×10 <sup>3</sup>	<1.8	RA	NA	RA
22.04.2024	7	29	8.1	10	4.6	16.2	1.3×10 <sup>5</sup>	2.3×10 <sup>4</sup>	RA	NA	RA		
5.	River Ganga at Janey Village, Kanpur	30.10.2023	7.3	27	7.92	10	6	22.2	7.9×10 <sup>5</sup>	1.3×10 <sup>5</sup>	0.05	<0.1	NA
		06.11.2023	7.8	25	7.98	5	2.4	10.9	2.2×10 <sup>4</sup>	6.8×10 <sup>3</sup>	<0.00056	<0.1	NA
		20.11.2023	8.1	26	8.04	10	3.2	16.2	3.3×10 <sup>4</sup>	1.3×10 <sup>4</sup>	<0.00056	<0.1	NA
		11.12.2023	8.5	21	8.39	10	3.4	15.1	2.7×10 <sup>4</sup>	1.3×10 <sup>4</sup>	0.02	<0.1	NA
		26.12.2023	11	20	8.21	20	4	19.3	7.8×10 <sup>3</sup>	4.5×10 <sup>3</sup>	0.04	<0.1	NA
		29.01.2024	10.6	16	8.78	15	4.6	14.2	1.3×10 <sup>4</sup>	7.8×10 <sup>3</sup>	<0.00056	<0.1	BDL
		19.02.2024	6.9	20	7.91	15	5.6	21.3	1.7×10 <sup>4</sup>	2.3×10 <sup>3</sup>	0.011	<0.1	0.011
		04.03.2024	5	20	7.69	15	3	10.5	2.3×10 <sup>4</sup>	1.3×10 <sup>4</sup>	0.016	<0.1	0.016
		08.04.2024	7.8	26.2	7.75	20	4.2	15.8	3.5×10 <sup>5</sup>	2.0×10 <sup>4</sup>	RA	<0.1	RA
22.04.2024	6.4	29	7.72	15	4.8	17.2	7.9×10 <sup>4</sup>	2.3×10 <sup>4</sup>	RA	<0.1	RA		
6.	River Ganga at Rajapur Village, Kanpur	30.10.2023	6.8	27	7.86	10	2.5	10.5	3.3×10 <sup>5</sup>	7.9×10 <sup>4</sup>	0.02	<0.1	NA
		06.11.2023	8.2	25	7.99	5	2.5	10.5	2.3×10 <sup>4</sup>	7.8×10 <sup>3</sup>	<0.00056	<0.1	NA
		20.11.2023	8.4	26	8.05	10	4.2	17.2	2.3×10 <sup>4</sup>	7.8×10 <sup>3</sup>	<0.00056	<0.1	NA
		11.12.2023	8.6	21	8.39	10	5.1	18	1.7×10 <sup>4</sup>	1.1×10 <sup>4</sup>	0.03	<0.1	NA
		26.12.2023	8.4	20	8.38	15	3.3	18.4	1.3×10 <sup>5</sup>	2.3×10 <sup>4</sup>	0.03	<0.1	NA
		29.01.2024	10.6	16	8.75	15	5	18.4	4.5×10 <sup>3</sup>	2.0×10 <sup>3</sup>	<0.00056	<0.1	BDL
		19.02.2024	7.5	20	8.06	15	5.6	19.8	2.3×10 <sup>3</sup>	1.3×10 <sup>3</sup>	0.08	<0.1	0.08
		04.03.2024	6.5	20	7.8	15	3.1	10.4	3.3×10 <sup>5</sup>	1.3×10 <sup>5</sup>	0.028	<0.1	0.028
		08.04.2024	8	26.1	7.51	20	4.3	18.8	3.3×10 <sup>4</sup>	1.7×10 <sup>4</sup>	RA	<0.1	RA
22.04.2024	7.6	29	7.94	10	5.4	18.2	2.3×10 <sup>4</sup>	4.5×10 <sup>3</sup>	RA	<0.1	RA		
7.		30.10.2023	8.9	26	7.3	10	2.5	9.5	1.1×10 <sup>6</sup>	1.3×10 <sup>5</sup>	<0.00056	NA	NA
		06.11.2023	8.4	24	7.9	5	2.5	15	3.3×10 <sup>4</sup>	1.1×10 <sup>4</sup>	<0.00056	NA	NA

S. No.	Name of River & Locations	Date of monitoring	DO (mg/l)	Temp (°C)	pH	Colour (Hazen)	BOD (mg/l)	COD (mg/l)	Total Coliform (MPN/100 ml)	Fecal coliform (MPN/100 ml)	Total Cr (mg/l)	Cr (VI) (mg/l)	Cr (III) (mg/l)
	River Ganga b/c with River Pandu at Daundiya Khera	20.11.2023	8.5	25	7.09	5	3.6	20.2	1.3×10 <sup>5</sup>	1.1×10 <sup>4</sup>	<0.00056	NA	NA
		11.12.2023	8.6	21	8.04	5	5.3	17.4	2.3×10 <sup>4</sup>	7.8×10 <sup>3</sup>	<0.00056	NA	NA
		26.12.2023	8.9	18	7.35	15	2.8	16.4	7.8×10 <sup>3</sup>	4.5×10 <sup>3</sup>	<0.00056	NA	NA
		29.01.2024	8.5	17	7.25	10	4.8	17.4	4.5×10 <sup>3</sup>	2.0×10 <sup>3</sup>	<0.00056	NA	NA
		19.02.2024	9.4	21	7.82	15	5.8	23.2	2.8×10 <sup>5</sup>	1.3×10 <sup>4</sup>	<0.00056	NA	NA
		04.03.2024	7	20	7.27	15	4.6	16.7	4.5×10 <sup>3</sup>	2.0×10 <sup>3</sup>	0.014	NA	NA
		08.04.2024	8.2	29	6.94	15	3.6	13	3.3×10 <sup>4</sup>	1.1×10 <sup>4</sup>	RA	NA	RA
		22.04.2024	8.9	31.5	8.24	5	5.9	20.2	7.9×10 <sup>4</sup>	4.9×10 <sup>4</sup>	RA	NA	RA
8.	River Pandu at Bakshar Bridge	30.10.2023	5	27	7.5	40	17.6	39.8	4.5×10 <sup>3</sup>	2.0×10 <sup>3</sup>	<0.00056	NA	NA
		06.11.2023	7.4	25	7.71	30	15.5	32.3	2.0×10 <sup>3</sup>	<1.8	<0.00056	NA	NA
		20.11.2023	6	26	7.33	20	13.1	23.1	4.5×10 <sup>3</sup>	2.0×10 <sup>3</sup>	<0.00056	NA	NA
		11.12.2023	3	21	7.52	10	5.7	18.7	2.0×10 <sup>3</sup>	<1.8	<0.00056	NA	NA
		26.12.2023	2	18	8.37	10	2.6	13.4	4.5×10 <sup>3</sup>	2.0×10 <sup>3</sup>	<0.00056	NA	NA
		29.01.2024	5.3	18.5	7.19	10	5.3	20.8	1.3×10 <sup>4</sup>	7.8×10 <sup>3</sup>	<0.00056	NA	NA
		19.02.2024	7.1	23	8.06	15	13.7	48.8	2.3×10 <sup>3</sup>	7.8×10 <sup>2</sup>	<0.00056	NA	NA
		04.03.2024	2.8	20	7.42	25	8.6	36.9	7.8×10 <sup>3</sup>	4.5×10 <sup>3</sup>	0.006	NA	NA
9.	River Ganga a/c with River Pandu at Lahangi Village	08.04.2024	5.3	30	7.39	15	9.8	19	1.7×10 <sup>4</sup>	7.8×10 <sup>3</sup>	RA	NA	RA
		22.04.2024	7.1	32	7.46	20	12.3	25.1	7.9×10 <sup>5</sup>	4.9×10 <sup>5</sup>	RA	NA	RA
		30.10.2023	8.5	26	7.71	10	2.6	10.1	3.3×10 <sup>4</sup>	7.8×10 <sup>3</sup>	<0.00056	NA	NA
		06.11.2023	7.9	24	7.98	5	2.5	15.6	6.8×10 <sup>3</sup>	2.0×10 <sup>3</sup>	<0.00056	NA	NA
		20.11.2023	8	25	7.81	5	2.6	14.1	2.3×10 <sup>4</sup>	4.5×10 <sup>3</sup>	<0.00056	NA	NA
		11.12.2023	9	21	8.01	10	5.2	17.5	7.8×10 <sup>3</sup>	4.5×10 <sup>3</sup>	<0.00056	NA	NA
		26.12.2023	8.8	18	8.72	15	3.7	16.7	2.0×10 <sup>3</sup>	<1.8	<0.00056	NA	NA
		29.01.2024	7.8	17	8.22	10	4.7	14.4	2.3×10 <sup>4</sup>	1.3×10 <sup>4</sup>	<0.00056	NA	NA
19.02.2024	10.2	22	8.34	15	6.2	24.5	1.3×10 <sup>5</sup>	3.3×10 <sup>4</sup>	<0.00056	NA	NA		
04.03.2024	6.8	20	7.65	15	6.3	25.3	1.3×10 <sup>4</sup>	7.8×10 <sup>3</sup>	0.009	NA	NA		
08.04.2024	8	29	7.46	15	5.3	18	1.3×10 <sup>4</sup>	4.5×10 <sup>3</sup>	RA	NA	RA		
22.04.2024	8.5	31.5	8.01	10	6.4	24.3	7.9×10 <sup>4</sup>	4.9×10 <sup>4</sup>	RA	NA	RA		

NA-Not analyzed; RA-Result awaited