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May 24th, 2019

To

**Chairman
Uttarakhand Environment Protection & Pollution Control Board,
Gaura Devi Bhawan, 46 B- IT Park Sahastradhara Road,
Dehradun, Uttarakhand – 248001**

DIRECTIONS UNDER SECTION 18 (1) (b) OF THE WATER (PREVENTION AND CONTROL OF POLLUTION) ACT, 1974 REGARDING WATER QUALITY RESTORATION OF RIVER BAHELA

WHEREAS, the Central Board, has delegated powers vested under Section 18 (1) (b) of Water (Prevention & Control of Pollution) Act, 1974 to the Chairman, Central Pollution Control Board vide its resolution made on 133rd Board meeting item no. 3.12 dated 24th March, 2005 to issue direction under Section 18 (1) (b) of the Water (Prevention & Control of Pollution) Act, 1974 to State Board; and

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

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

WHEREAS, amongst others, under section 16 of the Water (Prevention and Control of pollution) Act, 1974, one of the function of the Central Pollution Control Board, is to promote cleanliness of streams and wells in different areas of the States; and

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

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 High Court, Allahabad passed orders, on 01.04.2019 in Writ – C No.- 31877 of 2016, in matter of Charan Singh Vs State of U.P. & Ors., that *"It is appropriate to direct the water Prevention and Control of Pollution Board U.P. as well as the Central Pollution Control Board to submit a complete report regarding the pollution existing in the flowing water of river concerned. If the water is polluted beyond permissible limit, the Pollution Board shall also take necessary steps including the steps to recommend the body concerned to take necessary action against the Polluters. The necessary inspection in that regard may also be made by the Central as well as Uttar Pradesh Pollution Control Board. It would also be appropriate to make request to Uttarakhand Pollution Control Board (respondent no.8) to join the respondent Water Prevention and Pollution Control Board Uttar Pradesh and the Central Pollution Control Board (Respondent no 9) to join the process of necessary investigation relating to pollution in the River Bahela."*; and

WHEREAS, in compliance of Hon'ble High Court of Allahabad, order dated 01.04.2019 in Writ – C No.- 31877 of 2016, in matter of Charan Singh Vs State of U.P. & Ors, monitoring of water quality of River Behala was carried out by Joint team of officials from CPCB, Uttar Pradesh Pollution Control Board (UPPCB), Uttarakhand Environment Protection and Pollution Control Board (UEPPCB), Uttarakhand Pey Jal Nigam and Uttar Pradesh Jal Nigam during April 24-26, 2019 and following observations are made:

- i. River Bahela is a tributary of River Kosi which is a tributary of River Ramganga.
- ii. Monitoring was carried out in the entire stretch of River Bahela from forest of Hempur near Tumariya Dam in Udham Singh Nagar District, Uttarakhand and till it confluences with River Kosi near Khabariya Bhur Mustahkam village, District Rampur, Uttar Pradesh.
- iii. Monitoring was conducted at 15 locations comprising two defined stretches, Stretch 1: Origin to Moterswar Barrage and Stretch 2 from Moteshwar Barrage to the confluence of River Bahela with River Kosi.
- iv. River Bahela being Non- perennial is fed by drains carrying effluents from industrial units, industrial areas and domestic clusters.

- v. Fresh water of the river is diverted at Moteshwar Barrage and the river Bahela at downstream of the Barrage carries mostly wastewater from various drains and have less quantity of fresh water.
- vi. Analysis reports of water sample of River Bahela, collected at Ramnagar Road after origin & U/S of Moteshwar barrage showed, pH 7.3 (norms: 6.5-8.5); Dissolved Oxygen (DO) 7.32 mg/l (norms: 05 mg/l or more); Biochemical Oxygen Demand (BOD) 1.4 mg/l (norms: 3.0 mg/l or less); Fecal Coliform (FC)- 17×10^5 MPN/100ml (norms: 500 desirable; 2500 maximum permissible); Colour - BDL; Chemical Oxygen Demand (COD) 06 mg/l which indicates that this stretch of river water quality is meeting the bathing water criteria in terms of pH, DO & BOD, however it does not meet the criteria in terms of FC.
- vii. Analysis reports of water samples collected in stretch -II (from Moteshwar barrage downstream upto confluence of River Kosi) of River Bahela showed, pH 6.8-7.2 (norms: 6.5-8.5); Dissolved Oxygen (DO) - NIL (norms: 05 mg/l or more); Biochemical Oxygen Demand (BOD)- 27 mg/l to 75 mg/l (norms: 3.0 mg/l or less); Fecal Coliform (FC) - 20×10^3 to 45×10^5 MPN/100ml (norms: 500 MPN/100ml desirable; 2500 MPN/100ml maximum permissible); Colour - BDL to 13 Hazen; Chemical Oxygen Demand (COD) - 64 mg/l to 173 mg/l which indicates that river water quality is meeting the bathing water criteria in terms of pH, however it does not meet the criteria in terms of DO, BOD & FC.
- viii. Analysis results of waste water samples collected from Nakatiya Drain showed, pH- 7.19; Biochemical Oxygen Demand (BOD)- 252 mg/l; Colour- 16 Hazen; Chemical Oxygen Demand (COD) - 827 mg/l.
- ix. Analysis results of waste water samples collected from IGL Drain-I showed, pH- 7.06; Biochemical Oxygen Demand (BOD)- 15 mg/l; Colour- 18 Hazen; Chemical Oxygen Demand (COD)- 30 mg/l and IGL Drain-II showed, pH- 7.00; Biochemical Oxygen Demand (BOD)- 17 mg/l ; Colour- 12 Hazen; Chemical Oxygen Demand (COD)- 38 mg/l.
- x. Analysis reports of water samples collected from River Kosi before confluence of River Bahela showed, pH- 7.6 (norms: 6.5-8.5); Dissolved Oxygen (DO)- 8.19 mg/l (norms: 05 mg/l or more); Biochemical Oxygen Demand (BOD)- 1.5 mg/l (norms: 3.0 mg/l or less); Colour- BDL; Chemical Oxygen Demand (COD)- 07 mg/l; Fecal Coliform (FC)- < 1.8 MPN/100ml (norms: 500 MPN/100ml desirable; 2500 MPN/100ml maximum permissible); which indicates that river water quality is meeting the bathing water quality criteria in terms of pH, DO, BOD & FC.
- xi. Analysis reports of water samples collected from River Kosi after confluence of River Bahela showed, pH- 7.4 (norms: 6.5-8.5); Dissolved Oxygen (DO)- 0.7 mg/l (norms: 05 mg/l or more); Biochemical Oxygen Demand (BOD)- 32 mg/l (norms: 3.0 mg/l or less); Colour - BDL; Chemical Oxygen Demand (COD) - 83 mg/l; Fecal Coliform (FC)- 27×10^4 MPN/100ml (norms: 500 MPN/100ml desirable; 2500 MPN/100ml maximum permissible); which indicates that river water quality is not meeting the bathing water quality criteria in terms of DO, BOD & FC .

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REGARDING WATER QUALITY RESTORATION OF RIVER BAHELA

- xii. Analysis reports of water samples collected from River Kosi after confluence of River Bahela showed that water quality after confluence of River Kosi is deteriorated, which clearly indicates that River Bahela is carrying industrial wastewater from the following industrial units and industrial areas located, in the catchment area of River Bahela:

S. No.	Industrial areas / Units	Discharge Location
1.	Mahuakhera Ganj industrial area, U.K.	Catchment area: River Bahela
2.	M/s PMV Malting Pvt. Ltd., Mahuakhera Ganj industrial area, U.K.	Discharges into River Bahela
3.	M/s Kashi Vishwanath Textile Mill, Ramnagar Road, Kashipur, U.K.	Discharges into River Bahela
4.	M/s Vishwakarma Paper and Boards Mills Ltd., Ramnagar Road, Kashipur, U.K.	Discharges into River Bahela
5.	M/s Banwari Papers Mills Ltd., Ramnagar Road, Kashipur, U.K.	Discharges into River Bahela
6.	M/s KV Steel Pvt Ltd., Ramnagar Road, Kashipur, U.K.	Discharges into River Bahela
7.	M/s India Glycols Ltd (Ethanol Plant), Bazpur Road, Kashipur, U.K.	Discharges into River Bahela
8.	M/s India Glycols Ltd., (MEG Plant), Bazpur Road, Kashipur,	Discharges into River Bahela
9.	M/s Multiwal Duplex Pvt. Ltd., Kundeshwari Road, Kashipur, U.K.	Discharges into River Bahela
10.	M/s Cheema Paper Ltd., Bazpur Road, Kashipur, U.K.	Discharges into River Kosi
11.	M/s Multiwal Pulp and Board Mill Ltd., Bazpur Road, Kashipur, U.K.	Discharges into River Kosi

- xiii. Sample analysis results are enclosed as Annexure-I. Location-wise observations are enclosed at Annexure II;

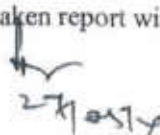
AND NOW, THEREFORE, in view of above referred observation & resolution and in exercise of the power conferred under section 18 (1) (b) of the Water (Prevention & Control of Pollution) Act 1974, you are here by directed to take appropriate measures for compliance and issuance of directions to concerned agencies and Industrial units to ensure implementation of following pollution control measures in a time bound manner and to submit action taken report along with defined timelines for improvement, within 30 days:

1. To ensure minimum ecological flow of fresh water in the river system
2. Augmentation and upgradation of Effluent Treatment Plant (ETP) of industrial units within three months.
3. UEPPCB shall carryout compliance verification of industrial units located in catchment of River Bahela weekly / fortnightly, and shall keep regular surveillance to ensure that discharged treated effluent shall meet the prescribed discharge norms.
4. Compliance as well as performance evaluation of ETP of industrial units shall be carried on monthly basis.

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5. In-situ treatment shall be initiated in drains as suitable within three months.
6. Installation of wire net/geo-net at confluence point of drains within three months.
7. Action-plan shall be prepared and implemented for ground water recharging/rain water harvesting within three months.
8. Preparation of detailed project report for creation of sewage treatment facility and installation of sewerage system in the towns located in catchment of river Bahela within three months.
9. Immediate banning open defecation along the banks, in the flood plain area and river basin.
10. Dredging/ desilting of river Bahela and drains shall be carried out along with concerned authorities within three months.
11. Immediate prohibition on dumping of municipal/industrial solid wastes and sludge on either the active flood plain of river or into the river itself.

UEPPCB shall acknowledge receipt of these directions within a week and submit action taken report within 30 days.


(S.P. SINGH PARIHAR)
CHAIRMAN

Copy to:

1. **Director General** : For kind information, please
National Mission for Clean Ganga,
(MOWR, RD & GR)
1st floor, Major Dhyan Chand National Stadium,
India Gate, New Delhi-110002
2. **Joint Secretary (CP Division)** : For kind information, please
Ministry of Environment, Forest & C.C
Prithvi Block, Indira Paryavaran Bhawan,
Jorbagh Road, New Delhi – 110 003
3. **Member Secretary** : For kind information, please
Uttar Pradesh Pollution Control Board,
Building No. TC-12 V, Vibhuti Khand,
Lucknow-226010 (U.P.)
4. **In-charge, IT Division, CPCB** : For uploading on CPCB website
5. Master file/Guard file WQM II, CPCB Delhi


(PRASHANT GARGAVA)
MEMBER SECRETARY

Table 1: General (Physico-chemical) Parameters of River Bahela (24/04/2019 to 26/04/2019)

S.N.		Sample Code	pH	EC	TDS	TSS	COD	DO	BOD	Chloride	Nitrate-N	Colour (Hazen)
River Bahela												
1	Stretch 1*	Ramnagar Road	7.3	231	130	7	6	7.32	1.4	11	BDL	BDL
2	Stretch 2**	Chaiti Chouraha	7.1	456	322	115	98	0	46	15	0.4	BDL
3		Kundsebara (U/s)	7.1	583	362	230	170	-	65	27	1.5	BDL
4		Kundsebara (D/s)	7.1	590	366	243	173	-	68	27	1	13
5		Railway Bridge	7.1	547	334	141	100	0	27	27	0.9	BDL
6		Lohiya bridge Kashipur Darhiyal Road	7.1	536	294	162	120	0	42	27	0.4	BDL
7		Rampur border bridge near village Kundesera	7.2	679	438	88	64	0	39	29	0.5	10
8		Tanda bridge near Ma Chamunda Devi temple (Rampur district)	6.8	662	500	51	136	0	74	31	0.5	BDL
9		Khabariya Bhur Mustahkam (before confluence)	7.1	748	538	53	161	0	75	48	0.7	12
River Kosi												
10		River Kosi (Before Confluence)	7.6	574	392	65	7	8.19	1.5	23	BDL	BDL
11	Stretch 2	River Kosi (After Confluence)	7.4	660	448	52	83	0.7	32	33	0.3	BDL
Drains												
12	Stretch 2	Nakatiya Drain (Moteshwar Barrage)	7.19	-	868	994	827	-	252	104	1	16
13		IGL drain - I (Udham Singh Nagar)	7.06	-	232	17	30	-	15	35	0.02	18
14		IGL drain- II (Udham Singh Nagar)	7	566	334	14	38	-	17	32	1	12
15		Tanda bridge near Ma Chamunda Devi temple (Rampur district)	7.3	527	328	8	BDL	-	BDL	23	BDL	13

*Stretch 1 = Origin to Moteshwar Barrage

** Stretch 2 = Moteshwar Barrage to confluence of river Bahela with river Kosi

All values are in mg/l except pH, EC and color

Annexure I

Table 2: Primary Water Quality Criteria for Bathing Water (Water used for organised outdoor bathing) and Laboratory observation for River Bahela (24/04/2019 to 26/04/2019)

Pollutant	Primary Water Quality Criteria for Bathing Water (Water used for organised outdoor bathing)*	Stretch 1		Stretch 2	
		Origin	to	Moteswar Barrage to confluence of river Bahela with river Kosi	
Fecal Coliform	Fecal Coliform (MPN/100 ml) : 500 (Desirable); : 2500 (Maximum Permissible)	26x10 ⁴ 17x10 ⁵ MPN/100ml	to	20x10 ³ - 45x10 ⁵ MPN/100ml	
pH	pH: Between 6.5-8.5	7.1 to 7.3		6.8-7.2	
Dissolved oxygen (DO)	Dissolved Oxygen: 5mg/l or more	0.0 mg/l to 7.32 mg/l		Nil	
Biochemical Oxygen Demand (BOD)	Biochemical Oxygen Demand: 3mg/l or less, (3 day, 27°C)	1.4 to 46 mg/l		27-75 mg/l	

*Ref: Pollution Control Acts, Rules and Notifications issued thereunder. Pollution Control Law series: PCLS/02/2010 (Sixth Edition), Central Pollution Control Board, June 2010, pg 501

Table 3. Bacteriological Parameters of River Bahela (24/04/2019 to 26/04/2019)

S. No.	Sample Code	Total Colifom MPN/100ml	Fecal Colifom MPN/100ml
1	Ramnagar Road	84 x 10 ⁵	17 x 10 ⁵
2	Chaiti Chouraha	11 x 10 ⁵	26 x 10 ⁴
3	Railway Bridge	45 x 10 ⁵	45 x 10 ⁵
4	Lohia Bridge Kashipur Darhiyal Road	78 x 10 ⁴	45 x 10 ⁴
5	Rampur Border Bridge Near Village Kundesera	13 x 10 ⁴	78 x 10 ⁵
6	Tanda Bridge Near Ma Chamunda Devi Temple (Rampur District)	13 x 10 ⁴	20 x 10 ³
7	Khabariya Bhur Mustahkam (Before Confluence)	20 x 10 ³	20 x 10 ³

Annexure-II

Table 4 Location-wise Observation and results of River Bahela

S. No.	Sample Location	Description and observations
1.	Ramnagar Road (NH-121) (Bahela River Water)	<ul style="list-style-type: none"> ▪ Water was clear and flowing smoothly under the bridge of NH-121. ▪ Upto this point no drain discharge was contributing to Bahela River. ▪ From this point onwards River width narrowed downstream. ▪ River is surrounded by agricultural fields. As per nearby residents and farmers, they use this water for irrigation of wheat, sugarcane, etc. <ul style="list-style-type: none"> ▪ DO= 7.32 mg/l, ▪ BOD= 1.4 mg/l, ▪ COD= 6 mg/l ▪ TC= 84×10^3 MPN/100 ml FC = 17×10^3 MPN/100 ml
2.	Moteshwar Barrage (Waste water from Nakatiya Drain in Kashipur)	<ul style="list-style-type: none"> ▪ Drain carrying discharge from Nakatiya Drain meet River Bahela at Moteshwar Barrage. ▪ River water is used in irrigational purpose as well as bathing and other domestic purposes. ▪ Moteshwar Mahadev canal originates from Bahela River at the Barrage. ▪ Freshwater is diverted into canal and hereafter wastewater from drains flows in the river with less amount of freshwater <ul style="list-style-type: none"> ▪ BOD= 252 mg/l, ▪ COD= 827mg/l
3.	Chaiti Chouraha (Bahela River Water)	<ul style="list-style-type: none"> ▪ Domestic sewage from Sai Public School, Vision Valley School, Silver Estate and few households of Mahadev Colony discharges into the Bahela River. ▪ River is surrounded by agricultural fields as well as residential colonies. <ul style="list-style-type: none"> ▪ DO= Nil ▪ BOD= 46 mg/l, ▪ COD= 98 mg/l ▪ TC= 11×10^5 MPN/100 ml, FC = 26×10^4 MPN/100 ml
4.	Kundsebara (Bahela River Water at Kundsebara U/s of confluence of Bahela River with drain carrying waste water of KV Steels)	<ul style="list-style-type: none"> ▪ Water samples were collected from upstream of the drain. ▪ River is surrounded by residential/slum area and is near to road going to Kashipur main town. ▪ Some construction activity was also observed near bridge. <ul style="list-style-type: none"> ▪ DO= Nil ▪ BOD= 65 mg/l, ▪ COD= 170 mg/l

TABLE (B) (PART I) UNDER SECTION 18 (1) (b) OF THE WATER (PREVENTION AND CONTROL OF POLLUTION) ACT, 1974
REGARDING WATER QUALITY RESTORATION OF RIVER BAHELA

<p>5. Kundsebara (Bahela River Water at Kundsebara D/s of confluence of Bahela River with drain carrying waste water of KV Steels)</p>	<ul style="list-style-type: none"> ▪ Water samples were collected from downstream of the drain. ▪ River banks are used as dumping site for ash. <ul style="list-style-type: none"> ▪ DO= Nil ▪ BOD= 68 mg/l, ▪ COD= 173 mg/l
<p>6. IGL Drain-I at Udham Singh Nagar (Waste water from IGL drain)</p>	<ul style="list-style-type: none"> ▪ Samples were collected from the drain carrying effluent from India Glycols Limited, Udham Singh Nagar (U.K). <ul style="list-style-type: none"> ▪ BOD= 15 mg/l, ▪ COD= 30 mg/l
<p>7. IGL drain-II (Waste water from IGL drain, 250 to 300 m before confluence with River Bahela)</p>	<ul style="list-style-type: none"> ▪ Wastewater collected from this drain at about 250 to 300m U/s of confluence point with River Bahela. ▪ River is surrounded by agricultural fields. <ul style="list-style-type: none"> ▪ BOD= 17 mg/l, ▪ COD= 38 mg/l
<p>8. Railway Bridge (Bahela River Water at Railway Bridge D/s of confluence of IGL drain)</p>	<ul style="list-style-type: none"> ▪ Water samples were collected from Bahela River 250-300m D/s of confluence point with IGL drain. ▪ River is surrounded by agricultural fields. ▪ Water has high amount of floating ash. <ul style="list-style-type: none"> ▪ DO= 0 mg/l, ▪ BOD= 27 mg/l, ▪ COD= 100 mg/l ▪ TC= 45×10^5 MPN/100 ml, FC = 45×10^5 MPN/100 ml
<p>9. Lohiya bridge Kashipur Darhiyal Road (Bahela River Water)</p>	<ul style="list-style-type: none"> ▪ Water samples were collected from Lohiya bridge, Kashipur Darhiyal Road (U.P). ▪ River is surrounded by agricultural fields. <ul style="list-style-type: none"> ▪ DO= 0 mg/l, ▪ BOD= 42 mg/l, ▪ COD= 120 mg/l ▪ TC= 78×10^4 MPN/100 ml, FC = 45×10^4 MPN/100 ml
<p>10. Rampur border bridge near village Kundesera (Bahela River Water)</p>	<ul style="list-style-type: none"> ▪ Water samples were collected from Rampur Border Bridge near village Kundesera (U.P). ▪ River is surrounded by agricultural fields. <ul style="list-style-type: none"> ▪ DO= 0 mg/l, ▪ BOD= 39 mg/l, ▪ COD= 64 mg/l ▪ TC= 13×10^4 MPN/100 ml, FC = 78×10^3 MPN/100 ml
<p>11. Tanda bridge near Tanda town in Rampur district (Bahela River Water)</p>	<ul style="list-style-type: none"> ▪ Water samples were collected from Tanda Bridge near Tanda town in Rampur district (U.P). ▪ River is surrounded by agricultural fields and residential colony as well. <ul style="list-style-type: none"> ▪ DO= 0 mg/l, ▪ BOD= 74 mg/l, ▪ COD= 136 mg/l ▪ TC= 13×10^4 MPN/100 ml FC = 20×10^3 MPN/100 ml

12.	Khabariya Bhur Mustahkam (Bahela River Water at Khabariya Bhur Mustahkam before confluence with Kosi River)	<ul style="list-style-type: none"> ▪ Water samples were collected from Bahela River before its confluence with the Kosi River. ▪ River is surrounded by agricultural fields. As per nearby residents and farmers, they use this water for irrigation of mentha, wheat, sugarcane, etc. <ul style="list-style-type: none"> ▪ DO= 0 mg/l, ▪ BOD= 75 mg/l, ▪ COD= 161 mg/l ▪ TC= 20×10^3 MPN/100 ml , FC = 20×10^3 MPN/100 ml
13.	Khabariya Bhur Mustahkam (Kosi River water at Khabariya Bhur Mustahkam U/s of confluence of Bahela River with Kosi River)	<ul style="list-style-type: none"> ▪ Water samples were collected from Kosi River upstream (before confluence point). ▪ River is surrounded by agricultural fields. <ul style="list-style-type: none"> ▪ DO= 8.19 mg/l, ▪ BOD= 1.5 mg/l, ▪ COD= 7 mg/l, ▪ TC= < 1.8 MPN/100 ml , FC= < 1.8 MPN/100 ml
14.	Khabariya Bhur Mustahkam (Kosi River water at Khabariya Bhur Mustahkam D/s of confluence of Bahela River with Kosi River)	<ul style="list-style-type: none"> ▪ Water samples were collected from Kosi River downstream (after confluence point). ▪ River is surrounded by agricultural fields. <ul style="list-style-type: none"> ▪ DO= 0.7 mg/l, ▪ BOD= 32 mg/l, ▪ COD= 83 mg/l, ▪ TC= 24×10^5 MPN, FC= 27×10^4 MPN

Annexure III

Table 5: Industries in catchment of River Bahela with potential discharge receiving surface water body

S. No.	Industrial areas / Units	Discharge Location
1.	Mahuakhera Ganj industrial area, U.K.	Catchment area: River Bahela
2.	M/s PMV Malting Pvt. Ltd., Mahuakhera Ganj industrial area, U.K.	Discharges into River Bahela
3.	M/s Kashi Vishwanath Textile Mill, Ramnagar Road, Kashipur, U.K.	Discharges into River Bahela
4.	M/s Vishwakarma Paper and Boards Mills Ltd., Ramnagar Road, Kashipur, U.K.	Discharges into River Bahela
5.	M/s Banwari Papers Mills Ltd., Ramnagar Road, Kashipur, U.K.	Discharges into River Bahela
6.	M/s KV Steel Pvt Ltd., Ramnagar Road, Kashipur, U.K.	Discharges into River Bahela
7.	M/s India Glycols Ltd (Ethanol Plant), Bazpur Road, Kashipur, U.K.	Discharges into River Bahela
8.	M/s India Glycols Ltd., (MEG Plant), Bazpur Road, Kashipur,	Discharges into River Bahela
9.	M/s Multiwal Duplex Pvt. Ltd., Kundeshwari Road, Kashipur, U.K.	Discharges into River Bahela
10.	M/s Cheema Paper Ltd., Bazpur Road, Kashipur, U.K.	Discharges into River Kosi
11.	M/s Multiwal Pulp and Board Mill Ltd., Bazpur Road, Kashipur, U.K.	Discharges into River Kosi