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B-190189/WQM-II/CPCB/TPA/2020-21 2798

Date: .06.2021  
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To  
The Member Secretary  
Uttar Pradesh Pollution Control Board  
Building.No. TC-12V, Vibhuti Khand  
Gomti Nagar, Lucknow  
Uttar Pradesh-226010

**DIRECTION UNDER SECTION 18(1)(b) OF THE WATER (PREVENTION AND CONTROL OF POLLUTION) ACT, 1974 FOR RESTORATION OF WATER QUALITY OF RIVER KALI EAST**

**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 Boards (SPCBs) and Pollution Control Committees (PCCs), 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 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, and Section 16 of the Air (Prevention and Control of Pollution) Act, 1981, one of the functions of the Central Pollution Control Board (CPCB) constituted under the Water (Prevention & Control of Pollution) Act, 1974 is to coordinate activities of SPCBs/ PCCs and to provide technical assistance and guidance to SPCBs/ PCCs; and

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

**WHEREAS**, SPCBs/PCCs can stipulate standards for discharge of environmental pollutants from various categories of industries and common effluent treatment plants (CETPs) more stringent than those notified by the Central Government, under the Environment (Protection) Act, 1986 and rules framed there under; and

**WHEREAS**, Grossly Polluting Industries (GPIs) are defined as industrial units having potential to discharge 100 kg/day BOD load and/or handling hazardous chemicals as specified in Manufacturing, Import and Storage of Hazardous Chemicals Rules 1989 and as amended; and

**WHEREAS**, distilleries and agro based pulp & paper mills are identified as GPIs having potential to discharge effluent with high colour and pollution load into river Ganga and its tributaries. Industrial Clusters of textile/tannery/pulp & paper industries are also identified as sources of discharge of effluent into drains/rivulets, which ultimately meet river Ganga; and

**WHEREAS**, as per decision taken during meeting dated 22.01.2019 chaired by Principal Secretary to Hon'ble Prime Minister, CPCB and SPCBs were required to monitor water quality at various locations on river Ganga w.r.t GPIs; and

**WHEREAS**, CPCB, in consultation with concerned SPCBs and technical institutes, identified recipient industrial/mixed drains which carry wastewater discharge from industrial units from major polluting sectors like Distillery, Pulp & Paper, clusters of Tannery and Textile, for monitoring of these drains through third party technical institutes to keep vigilance on environmental performance of these industries and industrial clusters as well as any episodal/illegal discharge; and

**WHEREAS**, 99 recipient drains (73 from industries and 28 from industrial clusters) were identified having potential to carry discharge from Distillery, Agro based Pulp & Paper mills and other industrial clusters. These drains were allocated among six technical institutes namely, IIT-BHU, IIT-Roorkee, IIT-Delhi, MIT-Muzaffarnagar, BCKV-Nadia and PCRI-Haridwar for monitoring on monthly basis; and

**WHEREAS**, monitoring of river Kali East near village Saini, Meerut (Pulp & Paper cluster), was carried out by team of experts from Indian Institute of Technology (IIT) Delhi, on monthly basis. The upstream location of the river selected for sample collection is latitude: 28.9657320, longitude: 77.7085076 while the downstream location is latitude: 29.0345736, longitude: 77.7909882; and

**WHEREAS**, deterioration was observed in the recipient drain during monthly monitoring of River Kali East in the month of Jan, 2021, Feb, 2021 and March, 2021. The analysis result of the samples collected from the stipulated upstream (U/s) and Downstream (D/s) locations during 3 rounds are as follows.

Date of sampling	Location	Colour (Hazens)	pH	BOD (mg/l)	COD (mg/l)	TSS (mg/l)	TDS (mg/l)	Cl <sup>-</sup> (mg/l)	NO <sub>3</sub> (mg/l)	NH <sub>3</sub> -N (mg/l)
19.01.2021	U/s	Dry								
	D/s	26	8.16	180	745	314	1285	361	25	12.7
25.02.2021	U/s	161	6.8	93	420	119	871	364	31.6	16.2
	D/s	232	6.13	323	1360	215	1645	269	56	24
25.03.2021	U/s	325	7.87	167	740	147	1450	329	16.4	8.3
	D/s	384	7.99	421	1760	278	1530	516	62	26

**AND WHEREAS**, from the ten rounds of monitoring of water quality of river Kali East at downstream of the Saini village, Meerut (Pulp & Paper cluster), is concluded that, the average COD level was **806 mg/l** and average BOD level was **180 mg/l** in the downstream location indicating deterioration in water quality of recipient water bodies due to discharge from industrial units located near village Saini, Meerut Mawana road, Meerut; and

**WHEREAS**, CPCB prepared an action plan for restoration of water quality of river Kali-East in its polluted stretch from Khatuali to Bulandsahar through in-situ remediation using constructed wetlands along with biodiversity parks which also includes the stretch of Saini Village, Meerut. The biodiversity parks which involve the in-situ remediation for rejuvenation of river Kali-East, preserve embankments and floodplains if any and maintenance of ecological integrity besides connecting the people to the river. The action plan has been forwarded on 31.12.2019 to Urban Development Department Govt. of Uttar Pradesh and National Mission for Clean Ganga for their consideration and necessary action; and

**WHEREAS**, Hon'ble NGT order dated 12.12.2019 in matter of O.A. No- 200/2014, opined that initiatives should be taken for the implementation of the action plan prepared by CPCB for "Rejuvenation of East Kali River through in-situ remediation, using constructed wetland systems" to restore river water quality; and

**WHEREAS**, industries responsible for deterioration of water quality of river Kali East near Saini village, Meerut Mawana road, Meerut, UP should take responsibility under Corporate Social Responsibility (CSR) to construct series of wetland system along polluted stretch at Saini village, Meerut for further treatment of effluent reaching into river Kali East from cluster of GPIs to ensure revival and restoration of river Kali East; and

**NOW THEREFORE**, in view of the above and in exercise of the powers conferred under section 18(1)(b) of the Water (Prevention and Control of Pollution) Act, 1974, you are hereby directed to take appropriate actions for compliance to the following:

1. Uttar Pradesh Pollution Control Board (UPPCB) shall identify the cause for deterioration of water quality of river Kali East at the downstream locations of the Saini Village, Meerut.
2. UPPCB shall issue directions as per applicable procedure under section 33A of the Water (Prevention and Control of Pollution) Act, 1974 to all concerned industries/activities to take remedial measures to ensure restoration of water quality of river Kali East in a time bound manner.
3. UPPCB may ask the GPIs located near village Saini, Meerut, having potential to discharge effluent into river Kali-East to develop constructed wetland/ biodiversity park along polluted stretch of river Kali East at Saini village, Meerut for further treatment of effluent, and to ensure revival of river Kali East (under Corporate Social Responsibility (CSR)). The Irrigation Department of Govt. of Uttar Pradesh may also be engaged. A meeting of stakeholders may also be organised to discuss the restoration plan of river Kali-East at the earliest.

The action taken report shall be submitted by UPPCB to CPCB within 30 days from the date of receipt of these directions. UPPCB shall also acknowledge the receipt of these directions to CPCB within a week.

(NARESH PAL GARG)   
CHAIRMAN

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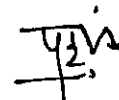
1. **Director General** : For kind information please  
National Mission for Clean Ganga  
1<sup>st</sup> Floor, Major Dhyan Chand National  
Stadium, India Gate,  
New Delhi - 110002
2. **Joint Secretary (CP Division)** : For kind information please  
Ministry of Environment, Forest & C.C,  
Prithvi Block, Indira Paryavaran Bhawan,  
Lodhi Road, New Delhi - 110 003



3 **Regional Director**  
Regional Directorate- North  
Central Pollution Control Board,  
PICUP Bhawan, Ground Floor, Vibhuti  
Khand, Gomti Nagar, Lucknow-226010  
✓ 56 The In-charge, IT Division, CPCB  
6 Master file/Guard file WQM-II Division,  
CPCB

: For kind information please

: To kindly upload on CPCB website



(PRASHANT GARGAVA)  
MEMBER SECRETARY

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