



F.No. A-14011/WQM-I/2021 | 9397

Dated: 06.12.2021

To

The Chairman,  
Uttar Pradesh Pollution Control Board  
Building No. TC-12V  
Vibhuti Khand, Gomti Nagar,  
Lucknow – 226010 (U.P)

**DIRECTIONS UNDER SECTION 18 (1) (b) OF THE WATER (PREVENTION AND CONTROL OF POLLUTION) ACT, 1974 IN THE MATTER OF CONTROL OF POLLUTION IN RIVER YAMUNA**

**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 (SPCB) and Pollution Control Committee (PCC) 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.

**WHEREAS**, In pursuance of Hon'ble NGT order dated 16.02.2018 in O.A. No. 06/2012 in the matter of Manoj Mishra Vs. Union of India & Ors related to high Ammonia level in river Yamuna, a meeting was held on 20.02.2018 under the chairmanship of 'Secretary, Ministry of Jal Shakti' wherein Chief Secretary, Haryana State Government; Chairman, Haryana State Pollution Control Board (HSPCB); Member Secretary, Upper Yamuna River Board (UYRB) & Executive Director, National Mission for Clean Ganga (NMCG); Member Secretary, Central Pollution Control Board (CPCB); Member (Drainage), Delhi Jal Board (DJB); Chief Nodal Officer (Water), DJB; Chief Engineer (WW), DJB; Chief Engineer, Haryana Irrigation & Water Supply Department, Panchkula, Haryana; Chief Engineer, YWS(S), Haryana Irrigation & Water Supply Department, Delhi attended the meeting. The matter related to water quality and high level of Ammonia in the river Yamuna water at Wazirabad pond was discussed and accordingly short and long-term measures/ recommendations were made by the Committee for its implementation by the respective States, and .

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**WHEREAS**, CPCB has identified 351 polluted river stretches in the country in the year 2018 based on water quality data of 2016 and 2017, including 3 on River Yamuna based on Biochemical Oxygen Demand (BOD) as criteria pollutant. The identified stretches as polluted on river Yamuna are under Priority Class I in Delhi (Wazirabad to Asgarpur), Haryana (Panipat to Sonapat) and Uttar Pradesh (Asgarpur to Etawah & Shahpur to Allahabad, Balua Ghat) That in compliance to Hon'ble NGT orders passed in OA No 673/2018, River Rejuvenation Committee (RRC) constituted by Delhi, Haryana, Uttar Pradesh State Governments have prepared and submitted action plans to CPCB Task Team, for bringing polluted river stretch of River Yamuna in the respective jurisdiction to be fit at least for bathing purposes (i.e. BOD < 3 mg/L and FC < 500 MPN/100 ml) on the basis of gap analysis (w.r.t. sewage, industrial effluent, waste management and other aspects as per Hon'ble NGT order) which were approved by CPCB Task Team with conditions. Presently, implementation of activities under Action Plans already approved by CPCB Task Team in respect of P-I to P-IV polluted river stretches and progress of implementation of P-V action plans is being reviewed periodically by the River Rejuvenation Committee constituted by the respective State Govt./ UT Administration at State level, while the Central Monitoring Committee (CMC) constituted by Hon'ble NGT under the chairmanship of Secretary, Ministry of Jal Shakti (MoJS) reviews the progress at Central Level, and

**WHEREAS**, a 'Study Group' has been constituted to suggest long term and short term measures for control of pollution in river Yamuna. Report of the Study Group has been discussed in a meeting held on 30.09.2021 with the stakeholders of Delhi and Haryana and sought comments, and

**WHEREAS**, in the past, CPCB has issued directions under section 18 (1) (b) of The Water (Prevention and Control of Pollution) Act, 1974 and under section 5 of The Environment (Protection) Act, 1986 to Uttar Pradesh Pollution Control Board (UPPCB) for ensuring 100 % of treatment of generated domestic sewage, industrial effluent and wastes by providing adequate infrastructure on ground in a time bound manner, and

**WHEREAS**, Central Pollution Control Board (CPCB) continuously received complaints

regarding increasing in level of Ammonical Nitrogen in Yamuna river at Wazirabad and increase in foam formation at D/s of Okhla Barrage, mainly during winter season. To ascertain the facts monitoring was carried out and meetings were held with the stakeholders agencies in Delhi, Haryana and Uttar Pradesh in previous years and several reports have been filed before Hon'ble National Green Tribunal and Hon'ble Supreme Court Further, CPCB also carried out sampling of river Yamuna at Pallah, Wazirabad, ITO, Okhla, CLC, inlet of WTP at Wazirabad, Drain No. 6 and Drain No. 8 during 08.11.2021, 09.11.2021 and 11.11.2021 to assess the water quality of river Yamuna. Based on the monitoring carried out on 8.11.2021 at Okhla., The concentration of Ammonical Nitrogen (15.8 mg/L), BOD (10 mg/L), Faecal Coliform (13000000 MPN / 100 mL) and Faecal Streptococci (1300000 MPN/100 mL) are high. Detergents are also observed as 1.8 mg/L and Phosphate as 1.05 mg/L. Water quality of river Yamuna on 09.11.2021 revealed at Palla, the concentration of Ammonical Nitrogen (4 mg/L), BOD (5 mg/L), Faecal Coliform (35000 MPN / 100 mL) and Faecal Streptococci (1700 MPN / 100 mL) count are high. Detergent is observed as 'BDL' and Phosphate as 0.2 mg/L. Water quality assessment of river Yamuna carried out on 11.11.2021 at Okhla reveal that the concentration of Ammonical Nitrogen (13.3 mg/L), BOD (9 mg/L), Faecal Coliform (3500000 MPN/100 mL) and Faecal Streptococci (24000 MPN / 100 mL) are high. Detergents are also observed as 2 mg/L and Phosphate as 0.66 mg/L. Based on the analysis and observations of the afore-said monitoring, it can be concluded that foam formation in river Yamuna is due to the presence of detergents and laundry chemicals in river. These detergents contain phosphates (sodium tri-poly-phosphate) which might have been released from households/industrial activities, as natural levels of phosphate usually range from 0.005 to 0.05 mg/l, and

**WHEREAS**, a meeting has been convened on 10.11.2021 with the officials of Haryana, Delhi and UP States to take a stock of action taken on the earlier directions as well as long-term and short term measures suggested by Ministry of Jal Shakti (MoJS) in a meeting which was held on 20.02.2018 under the chairmanship of 'Secretary, Ministry of Jal Shakti'. In the said meeting, Delhi, Haryana and UP officials were requested to take necessary remedial measures for control of pollution in a time bound manner.

**NOW, THEREFORE**, in exercise of the powers conferred under section 18 (1) (b) of The Water (Prevention & Control of Pollution) Act 1974, the following directions are issued for ensuring compliance:

- 1 To ensure 100 % treatment of generated sewage, industrial effluent and wastes, by providing adequate infrastructure on ground in a time bound manner in the State and also to comply to various directions passed by Hon'ble National Green Tribunal (NGT) for rejuvenation of identified polluted rivers including river Yamuna within the jurisdiction of Uttar Pradesh State.
2. To enhance monitoring frequency of drains, river Yamuna, industries, STPs and CETPs and strict enforcement of discharge norms in the UP State. Action should be initiated against the violators in accordance with the provisions of The Water (Prevention and Control of Pollution) Act, 1974, as applicable.
3. To carryout random inspection of water polluting industries, Sewage Treatment Plants (STPs), Common Effluent Treatment Plants (CETPs) falling in the catchment of river Yamuna and located within the jurisdiction of the U.P. State and to identify violating industries or operators of STPs /CETPs and Imposition of 'Environmental Compensation' on the violators in line with the Hon'ble NGT directions.
4. To identify the violators of environmental norms falling in the catchment of river Yamuna and located within the jurisdiction of the U.P. State and criminal proceedings also shall be initiated against such violators under the provisions of The Water (Prevention and Control of Pollution) Act, 1974 or The Environment (Protection) Act, 1986 as applicable.
5. An effective surveillance from State authorities also be formed for control of Ammonical Nitrogen in river Yamuna and if required, use of advanced technologies such as 'drones for surveillance' also be explored.
6. Stringent measures against the tankers indulged in illegal discharges in river Yamuna also be taken within the jurisdiction of the UP State.
7. To instruct UP State Police/UP Traffic Police/Road Transport Authority, Government of UP to take stringent actions against the tankers indulged in illegal discharges in river Yamuna within the jurisdiction of U.P. State.

- 8 All the District Magistrates/Local and Urban Authorities in UP State to prevent unauthorized disposal of Septic Tank Waste (Septage) in drains or river Yamuna.
9. To instruct UP State Police/UP Traffic Police/Road Transport Authority, Government of UP to take stringent actions against the tankers indulged in illegal discharges in river Yamuna within the jurisdiction of U.P. State.
10. Recommendations of the Study Group and MoJS (i.e , long term and short term measures) also be implemented by all the concerned in a time bound manner, for which time bound action plans shall be prepared and submitted to MoJS and CPCB and its implementation shall be ensured by the concerned State Government Departments
11. A mechanism shall be developed to alert the authorities in case of incidences of increase in Ammonical Nitrogen or Phosphate concentration in river Yamuna (by way of installing Real Time Water Quality Monitoring Station at the interstate borders, so that short term measures be implemented if necessary by all the concerned. All the authorities of Delhi, Haryana and UP should be coordinated each other to resolve episode spike in Ammonical Nitrogen and Phosphate/ surfactants in river Yamuna by implementing suitable measures.
12. Washing activities at Dhobi Ghats on the banks of river Yamuna should be prohibited. Dry Cleaning Units in operation without captive Effluent Treatment Plants in UP State should be closed with immediate effect. Dedicated Dhobi Ghats shall be developed with a provision of wash water collection and treatment of wash wastewater, before its discharge into river Yamuna, in a time bound manner.
13. To submit the action taken reports on the directions issued by CPCB during the years 2019- 2021 in case of river Yamuna.
- 14 UPPCB shall issue direction under section 33 (A) of The Water (Prevention & Control of Pollution) Act 1974 to UP Irrigation Department, Government of UP
  - i. That feasibility of periodic cleaning/de-silting of canals joining river Yamuna at Okhla Barrage prior to the monsoon season apart from periodic Dredging, De-weeding of the Okhla Barrage be examined.
  - ii. That use of De-foaming/Foam suppressing chemicals at Okhla Barrage to avoid foam formation whenever foaming is observed in Okhla barrage be considered subject to no impact on the aquatic environment in river Yamuna.

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- iii. That feasibility of change in the design of spillway of Okhla Barrage shall be explored to ensure smooth discharge from the Okhla barrage instead of vertical fall to avoid foam or froth formation at the D/s of Okhla Barrage.
- iv. That arrangement of adequate capacity of surface aerators or floating aerators (solar powered) or diffused aerators shall be made at Okhla barrage to disperse excess ammonium levels in river Yamuna

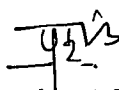
**Compliance to the directions shall be submitted to CPCB within fifteen days from the date of receipt of these directions.**

15<sup>th</sup> 6/12/21  
(Tanmay Kumar)  
Chairman

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**Copy for information to:**

1. Joint Secretary, CP Division,  
Ministry of Environment, Forest & Climate Change  
Indira Paryavaran Bhawan, Level-II,  
Prithvi Wing, Jorbagh,  
New Delhi-110003
- 2 PS to Secretary,  
Ministry of Jal Shakti  
2, Rafi Marg, Sansad Marg Area,  
New Delhi-110001
3. Director General,  
National Mission for Clean Ganga,  
Ministry of Jal Shakti  
Department of Water Resources, River Development & Ganga Rejuvenation  
1st Floor, Major Dhyan Chand National Stadium, India Gate  
New Delhi – 110002
4. Executive Director (Technical)  
National Mission for Clean Ganga,  
Ministry of Jal Shakti  
Department of Water Resources, River Development & Ganga Rejuvenation  
1st Floor, Major Dhyan Chand National Stadium, India Gate  
New Delhi – 110002
- ✓ 5. DH-IT Division, Central Pollution Control Board
6. DH UPC-I, Central Pollution Control Board
7. DH UPC – II, Central Pollution Control Board
- 8 DH-IPC-VII, Central Pollution Control Board
9. Regional Directorate, Chandigarh  
Central Pollution Control Board,  
BSNL Telephone Exchange, 2nd Floor,  
Sector 49 -C, Chandigarh-160 047
10. Regional Directorate, Lucknow  
Central Pollution Control Board,  
PICUP Bhawan, Vibhuti Khand,  
Gomti Nagar, Lucknow -226 010, UP

  
(Prashant Gargava)  
Member Secretary