



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.

SPEED POST/E-mail

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Date: 20.12.2024  
01.01.2025

To,

The Chief General Manager  
Uttarakhand Jal Sansthan  
B-block, Jal Bhavan, Nehru Colony,  
Dehradun – 248001 (Uttarakhand)

**DIRECTIONS UNDER SECTION 5 OF THE ENVIRONMENT (PROTECTION) ACT, 1986 FOR OPERATION AND MAINTENANCE OF GYANSU (02 MLD), SEWAGE TREATMENT PLANT (STP), UTTARKASHI -reg.**

**WHEREAS**, the Ministry of Environment & Forests, Govt. of India, vide notification S.O.157(E) of 27.02.1996 has delegated powers vested under Section 5 of the Environment (Protection) Act, 1986 (29 of 1986) to the Chairman, Central Pollution Control Board (CPCB), to issue direction to any Industry, Municipal Corporation, Municipal Council, Cantonment Board to any local or other Authority for the violation of emission and effluent standards notified under the Environment (Protection) Rules, 1986 and other standards and norms; and

**WHEREAS**, sewage is a major cause for poor water quality and adversely impacts human health and aquatic life. The discharge of untreated and partially treated sewage not meeting standards is further adding to the problem of water pollution and very sizeable gap exist in generation and treatment of sewage; and

**WHEREAS**, there is need to inculcate habit of self-monitoring within the Sewage Treatment Plants (STPs) for complying with the prescribed standards and this can be achieved by the methods like installing Online Continuous Effluent Monitoring System (OCEMS); and

**WHEREAS**, for strengthening the monitoring and compliance through self-regulatory mechanism, OCEMS need to be installed and operated by the agencies responsible for operation and management of STPs on 'polluter pays principle'; and

**WHEREAS**, officials from CPCB (North)-RD-Lucknow carried out inspection of 02 MLD STP located at Gyansu, Uttarkashi, Uttarakhand on 23.09.2024 with reference to inspected under 'Environmental Surveillance of 17 categories of high pollution industries and common facilities, based on OCEMS data' SMS alert generated for OCEMS operations. The following observations were made-

1. The STP is based on Moving Bed Biofilm Reactor (MBBR) technology, which comprises the following units Bar Screen - Sump Pit -Screen (01 manual and 01 Automatic)-Grit Chamber-Anoxic Tank- MBBR Tank 1&2- Flocculator-Tube Settler-Chlorine Tank- Sand Filters- Outlet.
2. At the time of inspection, STP was found receiving sewage with flowrate 210.41 m<sup>3</sup>/hr, indicating overcapacity operation against its designed capacity of 2 MLD.

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Parivesh Bhawan, East Arjun Nagar, Delhi - 110 032.

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

3. The STP is operated under supervision of Uttarakhand Jal Sansthan (UKJS), Uttarkashi.
4. Samples for analysis were collected from inlet and outlet of the STP.
5. The analysis report of treated sewage from the STP outlet shows the values pH – 6.98 (against prescribed norms of 6.5-9.0), BOD- 5.4 mg/l (against prescribed norms of 30 mg/l), TSS- 11.6 mg/l (against prescribed norms of 100mg/l) and **Faecal Coliform –  $1.3 \times 10^6$  MPN/100 ml (against norm of 1000 MPN/100 ml)** and as per the notified sewage discharge standards of Ministry of Environment, Forest & Climate Change (MoEF&CC) dated 13.10.2017, the treated sewage was non-complying for faecal coliform.
6. Compared with discharge norms for treated sewage prescribed by Hon`ble NGT as vide order dated 30.04.2019 in O.A. No. 1069/2018, treated sewage was found non-complying w.r.t. **Total Nitrogen as 10.5 mg/L** against prescribed value of 10 mg/L and **Faecal coliform as  $1.3 \times 10^6$  MPN/100 ml** against prescribed permissible value of 230 MPN per 100mL. Other parameters were found complying to prescribed norms of Hon`ble NGT and the observed values were pH – 6.98 (against norms of 5.5 to 9), BOD: 5.4 mg/l (against norms of 10 mg/l), and TSS: 11.6 (against norms of 20 mg/l).
7. Value of Total Phosphorous was also found higher (1.25 mg/) than the limit of 1 mg/l prescribed by Hon`ble NGT for treated sewage discharge into ponds and lakes.
8. The higher values of FC at outlet of STP, indicates improper operation & maintenance or inadequate disinfection system.
9. OCEMS data at the time of monitoring was recorded as pH-7.47, TSS: 7.22, Total Nitrogen-3.4 mg/L., Total Phosphorus-0.56, COD-30.10 mg/L and BOD-9.5 mg/L. Percentage deviation than actual analysed value for treated effluent observed in the OCEMS system as 55.2%, 67.61%, 37.8% lower with respect to Total Phosphorus, Total Nitrogen, SS, and 76.11%, 115.0% higher values than analysed values for BOD, COD parameters respectively. It indicates that OCEMS is not maintained and calibrated properly.
10. Treated sewage is discharged into river Bhagirathi, which is located approx. 50m from STP. During visit outlet drain was found damaged leading to discharge of treated sewage on land. However, no condition has been prescribed for discharge/utilization of treated sewage in the Provisional Consent Order (CCA) dated 28.06.2024.

**AND WHEREAS, it is evident from above, that the sewage treatment plant at Gyansu, Uttarkashi, Uttarakhand was found non-complying with respect to sewage discharge norms dated 13.10.2017 notified by MoEF&CC;**

**AND NOW, THEREFORE,** in view of the above violations and in exercise of the powers delegated to the Chairman, Central Pollution Control Board, under Section 5 of the Environment (Protection) Act, 1986, hereby following technical directions are being issued to **Uttarakhand Jal Sansthan** for compliance–

1. Ensure proper operation, maintenance of STP, including the disinfection unit, so as to comply with the applicable treated sewage discharge norms.
2. Ensure proper operation, maintenance and periodic calibration of OCEMS system.

3. Ensure repair and maintenance of STP outlet drain pipe so as to avoid any discharge on land and also to ensure final disposal of treated sewage as per consented condition of SPCB.

Uttarakhand Jal Sansthan shall submit duly notarized point wise reply along with measures taken in compliance of all points mentioned above in the directions for 2 MLD Gyansu STP, within 15 days from the date of issue of this direction. In case of failure to comply with the directions, necessary actions as deemed fit under provisions of the Environment (Protection) Act, 1986 will be taken by Central Pollution Control Board without any further notice.

  
(TANMAY KUMAR)  
CHAIRMAN

**Copy to:**

1. The Director General, : for kind information,  
National Mission for Clean Ganga please.  
1st Floor, Major Dhyan Chand National Stadium  
India Gate, New Delhi – 110002
2. The Additional Secretary (CP Division), : for kind information,  
Ministry of Environment, Forests, & Climate please.  
Change  
Indira Paryavaran Bhawan, Jorbagh Road,  
New Delhi – 110003
3. Member Secretary, : with a request to ensure  
Uttarakhand Pollution Control Board compliance of the  
Gaura Devi Bhawan, direction.  
46-B, IT Park, Sahastradhara,  
Dehradun, Uttarakhand- 248001
4. The District Magistrate, Uttarkashi : for kind information,  
Collectorate Compound please.  
Uttarkashi- 249193 (Uttarakhand)
5. Regional Director : for kind information and  
Regional Directorate, Lucknow necessary action please  
Central Pollution Control Board  
PICUP Bhawan, Vibhuti Khand, Gomti Nagar  
Lucknow- 226010 (Uttar Pradesh)
6. ✓ The Incharge, IT Division, : for uploading on website  
CPCB

  
(BHARAT KUMAR SHARMA)  
MEMBER SECRETARY