



केन्द्रीय प्रदूषण नियंत्रण बोर्ड
CENTRAL POLLUTION CONTROL BOARD
(पर्यावरण एवं वन मंत्रालय, भारत सरकार)
(MINISTRY OF ENVIRONMENT & FORESTS, GOVT. OF INDIA)

SPEED POST

F.No. B-190200 (Part)/STP- SBDP/WQM-II/CPCB/2020-21 15581 Dated: 03.02.2021

To,

The Managing Director,
Pey Jal Nigam Uttarakhand
11, Mohini Road, Rajendra Nagar
Dehradun – 248 001 (Uttarakhand)

DIRECTIONS UNDER SECTION 5 OF THE ENVIRONMENT (PROTECTION) ACT, 1986 FOR 150 KLD SEWAGE TREATMENT PLANT (STP), SANGAM BAZAR, DEVPRAAYAG, UTTARAKHAND-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 discharge 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 sewage discharge standards is further adding to the problem of water pollution; and

WHEREAS, Central Pollution Control Board (CPCB) issued directions dated 19.04.2017 to local authorities of five Ganga main stem states under Section 5 of Environment (Protection) Act, 1986 to take all necessary measures so that STPs which have been commissioned and all pumping stations work to their maximum capacity regularly and in no case their function should be stopped, continuous power supply at STPs and pumping stations shall be ensured (at least dual feeder system) and time bound action plan for collection and treatment of entire sewage generated in the identified Ganga front towns; and

WHEREAS, Hon'ble NGT vide its order dated 31/08/2018 and 19.02.2019 in O. A. No. 593/2017 (WP (Civil) No. 375/2012), Paryavaran Suraksha Samiti & Anr.Vs. Union of India & Ors. directed that "The CPCB may take penal action for failure, if any, against those accountable for setting up and maintaining STPs, CETPs and ETPs. CPCB may also assess and recover compensation for damage to the environment and said fund may be kept in a separate account and utilized in terms of an action plan for protection of the environment"; and

WHEREAS, in compliance of above referred Hon'ble NGT order, CPCB issued methodology for imposing Environmental Compensation (EC) vide circular dated 24/05/2019 and cases to be considered for levying EC are discharges in violation of consent conditions, mainly prescribed standards/non-compliance with the directions issued, such as direction for closure due to non-installation of Online Continuous Effluent Monitoring System (OCEMS), non-adherence to action plan submitted/ intentional avoidance of data submission or data manipulation by tampering the OCEMS or accidental discharges lasting for short durations resulting into damage to the environment/intentional discharge onto the ambient environment-land, water, air, resulting into acute injury or damage to the environment/injection of treated/partially treated/untreated effluents to ground water; and

Contd.:2..

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'Parivesh Bhawan', East Arjun Nagar, Delhi - 110032

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WHEREAS, as per the Hon'ble NGT order dated 30.04.2019 in O.A. no. 1069/2018, the applicable treated discharge standards for STPs are pH -5.5-9.0, BOD -10 mg/l, TSS - 20 mg/l, COD - 50 mg/l, Nitrogen-Total - 10 mg/l, Phosphorus-Total (For Discharge into Ponds, Lakes) - 1.0 mg/l, Faecal Coliform (FC) -100 MPN/100 ml (Desirable) & 230 MPN/100 ml (Permissible); and

WHEREAS, CPCB issued directions dated 26.06.2020 under Section 18 (1) (b) of the Water (Prevention and Control of Pollution) Act, to State Pollution Control Boards of Uttarakhand, Uttar Pradesh, Bihar and West Bengal for compliance of the following direction:

1. No authority shall allow the discharge of polluted sewage or polluted effluents directly into a water channel or stream in violation of the law even during monsoon season and they shall ensure that the standards for Faecal Coliform are duly maintained; and

WHEREAS, CPCB issued directions dated 10.08.2020 under Section 5 of the Environment (Protection) Act, 1986 for installation of Online Continuous Effluent Monitoring System (OCEMS) within six months for self - surveillance of Sewage Treatment Plants; and

WHEREAS, the Hon'ble NGT vide order dated 13.08.2020 in the O.A. no. 200/2014 directed that,

1. *For delay in setting up of STPs and sewerage network beyond prescribed timelines, State may be liable to pay Rs. 10 Lakhs per month per STP and its network.*
2. *With regard to works under construction, after 01.07.2020, direction for payment of environmental compensation of Rs. 10 lakhs per month to CPCB for discharging untreated sewage in any drain connected to river Ganga or its tributaries and Rs. 10 lakhs per month to CPCB per incomplete STP and its sewerage network will apply.*
3. *As already observed by this Tribunal including in the order dated 14.05.2019 that River Ganga being National River with distinct significance for the country, even a drop of pollution therein is a matter of concern; and*

WHEREAS, a team of official from CPCB carried out inspection of **150 KLD STP located at Sangam Bazar, Devprayag, Tehri Garhwal** and following observations were made during the inspection:

1. The STP was found operational during inspection on 28.12.2020.
2. The STP is based on Sequential Batch reactor (SBR) Technology and its main components are: Inlet sump - Oil and grease trap-SBR tank-Chlorination tank-Outlet.
3. The unit does not have valid Consent to operate.
4. V-notch was installed at inlet but no logbooks were maintained.
5. As per the logbook data till 16.12.2020, the STP was working under capacity at 106 KLD against designed capacity of 150 KLD because connection of households to the sewerage network is under progress.

6. **Large amount of untreated sewage was found overflowing at the time of inspection from inlet line and local residents informed to the inspection team that bypass of untreated sewage is regular practice and untreated sewage goes directly to river Bhagirathi.**
7. The logbook has recorded the flow reading on 27.12.2020 as 55713.58 m³ whereas the meter at outlet was showing the reading 54641.74m³ which indicates manipulation of flowdata in logbook.
8. Online Continuous Effluent Monitoring System (OCEMS) was not installed at outlet.
9. About 0.076 MLD sewage is generated in the catchment area of STP and sewage reaches the STP inlet through sewage network.
10. Analysis of influent and effluent quality scheduled on daily basis though environmental lab was not available at the STP and no lab record was provided.
11. Provision of tertiary treatment facility was not available in the STP and disinfection system is installed with dosing of hypochlorite @1Litre/day.
12. Analysis of sample collected from STP inlet showed pH-6.7, BOD – 179 mg/l, COD - 330 mg/l, TSS - 287 mg/l, Nitrate– 1.6 mg/l, Ammonical Nitrogen– 10 mg/l, Total Phosphorous – 2.51 mg/l, TDS as 304 mg/L, Sulphate as 19 mg/L and Chloride as 38 mg/L.
13. Treated sewage discharge from STP outlet showed pH-6.8, TDS –488 mg/l, Sulphate-29 mg/l, Nitrate-2.1 mg/l, Chloride as 67 mg/L and Total Coliform-15x10⁹ MPN/100ml. It was found **non-complying** with respect to **BOD as 166 mg/L** against norms of 10 mg/L, **COD as 305 mg/L** against norms of 50 mg/L, **TSS as 213 mg/L** against norms of 20 mg/L, **Fecal Coliform as 68x 10⁷ MPN/100 ml against 230 MPN/100 ml** and Total Phosphorus as 3.48 mg/L (against norms of 1.0 mg/L for discharge into ponds and lakes) as per Hon'ble NGT order dated 30.04.2019 in O.A. No. 1069/2018. High Fecal coliform count at outlet shows that disinfection technology was not properly working.
14. As per analysis report it may be inferred that the physico-chemical characteristics of influent and effluent are almost same, which clearly indicates that STP is not operated properly.
15. The values of MLSS/MLVSS were recorded as **13489/6738 mg/l**, which indicates poor SVI maintenance.
16. As reported, the common drain/nallahs from the upper side of the Ganga is presently connected to the STP. No provision for collection of sewage/tapping of drains from lower side is available at present, resulting in untreated sewage going into river directly/indirectly.
17. Public toilets near the Sangam Marg are not connected with sewerage system or STP and the total sewerage generated from these toilets is directly being discharged into river Bhagirathi.
18. Method of sludge disposal and status was unsatisfactory.
19. Treated sewage is disposed into river Bhagirathi which then finally meets river Ganga; and

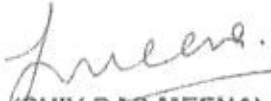
WHEREAS, Pey Jal Nigam, Uttarkhand (UKPJN) is required to carry out the following suggestive measures –

1. Sewerage network shall be augmented so that STP capacity may be optimally utilized.
2. STP shall obtain consent to operate under Water Act from Uttarakhand Pollution Control Board.
3. Bypass/discharge of untreated sewage into river Bhagirathi shall be stopped immediately.
4. All possible efforts shall be made to ensure consistent compliance of the standards referred.
5. OCEMS shall be installed at outlet of STP and connected to CPCB/UKPCB server.
6. STP shall install flowmeter at outlet.
7. STP shall maintain proper log book for inlet & outlet flow, treated sewage characteristics, pump operations, electricity, maintenance/breakdown and solid waste & sludge generation/disposal.
8. STP shall establish environmental laboratory for monitoring of treated sewage discharge quality.
9. Proper disinfection of the treated sewage must be carried out to achieve the desirable count of Faecal Coliform in final treated sewage.

It is evident that the Sewage Treatment Plant at Sangam Bazar, Devprayag having designed treatment capacity of 150 KLD was found overflowing at the time of inspection from inlet line and disposing large amount of untreated sewage directly to river Bhagirathi posing potential threat of injury to the environment.

NOW, THEREFORE in view of the above observations, and in exercise powers delegated to the Chairman, Central Pollution Control Board under section 5 of the Environment (Protection) Act, 1986, Show Cause notice is hereby served to Pey Jal Nigam, Uttarakhand to explain the reason of bypass and non-compliance with sewage discharge standards at 150 KLD Sangam Bazar STP, Devprayag and **why Environmental Compensation of Rs 10 lakh should not be imposed on Pey Jal Nigam, Uttarakhand for discharge of untreated sewage into River Ganga due to overflow from inlet line of Sangam Bazar STP (150 KLD) until the bypass/discharge of untreated sewage into river Bhagirathi is stopped.**

Uttarakhand Pey Jal Nigam shall acknowledge the receipt of Show Cause Notice and submit reply within 15 days from the date of this notice failing which suitable action as deemed fit under provision of the Environment (Protection) Act, 1986 will be initiated.


(SHIV DAS MEENA)
CHAIRMAN

Copy to:

1. **The Secretary,**
Ministry of Housing & Urban Affairs,
Government of Uttarakhand
31/62 Rajpur Road,
Dehradun, Uttarakhand-248001 : for kind information and
necessary action please
2. **The Member Secretary,**
Uttarakhand Pollution Control Board
29/20 , Nemi Road,
Dehradun- 248 001 (Uttarakhand) : with a request to ensure
compliance of the
direction
3. **The Director General,**
National Mission for Clean Ganga (MoWR, RD & GR)
1st Floor, Major Dhyan Chand National Stadium
India Gate, New Delhi – 110002 : for kind information
please
4. **The Joint Secretary (CP Division),**
Ministry of Environment, Forests, & Climate Change
Indira Paryavaran Bhawan, Jorbagh Road,
Ali Ganj, Lodhi Colony, New Delhi – 110013 : for kind information
please
5. **Project Director,**
State program management group, Uttarakhand
(SMCG-UK), 117 Indira Nagar,
Dehradun,Uttarakhand-248001 : for kind information and
necessary action please
6. The Incharge, IT Division, CPCB : for uploading on website
7. Incharge, WQM-II, CPCB, DELHI : for record


(PRASHANT GARGAVA)
MEMBER SECRETARY