



Speed Post / E-mail

F. No. PJ-14013(12)/4/2021-WQM-II-HO-CPCB-HO

Dated: 23.12.2021

To,

Managing Director,
SIIDCUL/Head Office,
29, IIE (IT PARK), Sahastradhara Road,
Dehradun-248001, Uttarakhand

SHOW CAUSE NOTICE UNDER SECTION 5 OF THE ENVIRONMENT (PROTECTION) ACT, 1986 REGARDING NON-COMPLIANCE OF CETP AT PANTNAGAR, UTTARAKHAND

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, CPCB, to issue direction to any industry, Municipal Corporation, Municipal Council, Cantonment Board or to any local or other Authority for the violation of emission and effluent standards notified under the Environment (Protection) Rules, 1986; and

WHEREAS, the Central Government has notified the standards for discharge of environmental pollutants from various categories of industries, Common Effluent Treatment Plants (CETPs) and Sewage Treatment Plants (STPs) under the Environment (Protection) Act, 1986 and the rules framed there under; and

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)/Pollution Control Committees, constituted under the Water (Prevention and Control of Pollution) Act, 1974, is to plan a comprehensive programme for the prevention, control and abatement of pollution of stream and wells in the State/UT and to secure the execution thereof; and

WHEREAS, Hon'ble Supreme Court in the writ petition (c) no. 375 of 2012 pronounced judgement dated 22/02/2017 and issued direction as under:

1. *The setting up of 'common effluent treatment plants' should be taken up as an urgent mission. CETPs which are already under implementation should be completed within the lines already postulated. CETPs which are yet to be set up, concerned State Governments/ Union Territories were directed to complete the same within three years from today (i.e. 22/02/2017)*
2. *While acquiring lands for setting up of 'common effluent treatment plants' concerned State Governments will acquire such additional land as may be required for setting up "zero liquid discharge plants" as and when required in future*
3. *Government (or the Union Territories), shall cater to the financial requirement of running the CETPs, which are presently dis-functional, from their own financial resources*
4. *For setting up CETPs, the concerned State Governments (or the Union Territories) will prioritize such cities, towns and villages, which discharge industrial pollutants and sewage, directly into rivers and water bodies*

5. *The directions pertaining to continuation of industrial activity only when there is in place a functional primary ETP, and the setting up of functional CETPs, within the time lines, shall be of the Member Secretaries of the concerned Pollution Control Boards*
6. *Some of the CETPs are dis-functional, because of lack of finances Onus to operate the existing CETPs, rests on concerned Municipalities (and / or Local Bodies), cannot be permitted to shy away, from discharging this onerous duty*
7. *The norms for generating funds, for setting up and / or operating the CETP shall be finalized, on or before 31.03 2017, so as to be implemented w.e.f. the next financial year.*

AND WHEREAS, the 4 MLD Common Effluent Treatment Plant (here in after referred as 'CETP') is located at Integrated Industrial Estate, Sector - IIDC, IIE, Pantnagar, Tehsil - Kichcha, District Udham Singh Nagar, Uttarakhand and owned by the State Infrastructure & Industrial Development Corporation Uttarakhand Limited (SIIDCUL); and

WHEREAS, the CETP has been constructed by SIIDCUL to treat effluent generated from 520 industrial units located in Integrated Industrial Estate (Pantnagar, Uttarakhand) and member industries have hired a sub-contractor namely M/s Ramky Infrastructure Ltd. for the operation and maintenance of the CETP; and

WHEREAS, the CETP was inspected by CPCB officials on 19/08/2021 and following major observations were made:

1. The CETP was granted Trial Consolidated Consent to Operate and Authorization on 25.06.2020 under Water (Prevention and Control of Pollution) Act, 1974, Air (Prevention and Control of Pollution) Act, 1981 and Hazardous and Other Waste (Management and Transboundary Movement) Rules, 2016 valid till 31.03.2021. The CETP applied for renewal of Consent on 30.03.2021.
2. Industrial effluent received at the inlet of the CETP was not meeting the inlet effluent quality standards prescribed by UKPCB for pH-4.22 (against 5.5-9.0) and Oil & Grease-49 mg/l (against 20 mg/l).
3. Treated effluent of CETP was found complying w.r.t. treated effluent quality standards Values of parameters observed as pH – 7 (against 5.5 – 9.0), BOD as 15.2 mg/l (against 30 mg/l), COD as 51.4 mg/l (against 250 mg/l), TSS as 40 mg/l (against 100 mg/l), TDS as 1288 mg/l (against 2100 mg/l), Total Kjeldahl Nitrogen as 1.14 mg/l (against 100 mg/l), Chloride as 127 mg/l (against 1000 mg/l), Fluoride as 1.22 mg/l (against 2 mg/l), and Sulphate as 712 mg/l (against 1000 mg/l).
4. Low values of MLSS and MLVSS (751 mg/l and 616 mg/l, respectively) were observed in the aeration tank.
5. Oil and Grease Trap, mixing system in Equalization Tank and one Aerator were not operational.
6. Treated effluent was being discharged into drain, which meets river Kalyani which ultimately meet river Kosi after traversing approximately 35 km.

AND WHEREAS, CPCB issued letter dated 01/11/2021 to M/s Ramky Infrastructure Pvt. Ltd. (sub-contractor responsible for O&M of CETP) and suggested following necessary measures required to improve the functioning of the CETP:

1. CETP shall comply with the conditions stipulated in the consent to recycle treated effluent to maximum extent and comply with treated effluent quality norms prescribed by UKPCB.
2. CETP shall provide a copy of valid Consent to Operate obtained from UKPCB.

3. CETP shall ensure proper operation of flow meter installed at the outlet.
4. CETP shall repair and maintain Oil and Grease Trap, mixing system in Equalization Tank, aerators in Aeration Tank and Centrifuge
5. CETP should level launder of Primary and Secondary Clarifiers.
6. CETP shall ensure the scientific disposal of sludge and proper record should be maintained.
7. CETP shall maintain proper logbooks for operation, and inlet/outlet characteristics.
8. All possible efforts shall be made to ensure consistent compliance of the treated effluent quality standards prescribed by UKPCB.
9. CETP shall develop a mechanism to keep under close watch on all member units for ensuring regular compliance of prescribed primary effluent treatment norms so that the unit may function properly to achieve desired treated effluent quality norms prescribed by UKPCB.

AND WHEREAS, CETP, Pantnagar, Uttarakhand was inspected by CPCB officials on 22/09/2021 and following observations were made:

1. The 4 MLD CETP, Pantnagar, Uttarakhand, based on Activated Sludge Process followed by tertiary treatment through pressure sand filter was found operational on the day of inspection and utilized capacity was 2.3 MLD.
2. CETP comprises of following units: Screen Chamber → Collection Tank → Oil & Grease Chamber → Equalization Tank → Flash Mixer → Clariflocculator → Aeration Tank → Secondary Clarifier Tank → RAS Collection Tank → Sludge Thickener → Sludge Sump → Filter Feed Tank → Treated Effluent Storage Tank → Sludge Drying Bed → Sludge Storage Shed.
3. It was informed that the CETP was originally designed for treatment of effluent generated from 520 industrial units but receiving effluent only from 250 units.
4. Flow meters were installed at the inlet and outlet of the CETP. However, flow meter at outlet was not operational. The CETP representative informed that the flow meter installed at outlet got damaged on 21.07.2021 and sent for repairing.
5. Online Continuous Emission Monitoring System (OCEMS) was installed at the outlet of CETP and connected to CPCB server.
6. The CETP was granted Trial Consolidated Consent to Operate and Authorization (CCA) on 25.06.2020 under Water Act, 1974, Air Act, 1981 and Hazardous and Other Waste (Management and Transboundary Movement) Rules, 2016 by UKPCB which has been expired on 31.03.2021. The renewal of CCA was applied on 30.03.2021 by CETP and a copy of receipt of renewal application was provided to CPCB.
7. Treated effluent of CETP was found non-complying w.r.t. treated effluent quality standards for Fluoride-2.1 mg/l (against 2 mg/l) and Boron-15.48 mg/l (against 2 mg/l). Values of parameters observed as pH – 7.3 (against 5.5 – 9), BOD as 4 mg/l (against 30 mg/l), COD as 45 mg/l (against 250 mg/l), TSS as 13 mg/l (against 100 mg/l), TDS as 1028 mg/l (against 2100 mg/l), Chloride as 186 mg/l (against 1000 mg/l), Ammoniacal Nitrogen as 1 mg/l (against 50 mg/l) and Sulphate as 200 mg/l (against 1000 mg/l).
8. Industrial effluent received at the inlet of the CETP was not meeting the inlet effluent quality standards prescribed by UKPCB for pH-4.9 (against 5.5-9), BOD-716 mg/l (against 550 mg/l), COD-1262 mg/l (against 1000 mg/l), Boron-10.73 mg/l (against 2 mg/l) and Lead-2.2 mg/l (against 1 mg/l).
9. MLSS and MLVSS in the aeration tank were 1066 mg/l and 689 mg/l, respectively. Low MLSS/MLVSS in the aeration tank indicates that optimum active microbial consortium does not exist in aeration tank.
10. A lagoon inside CETP premises observed partially filled (very low level) with rain water. Algae and other suspended impurities observed in the lagoon. Plant representative informed that this

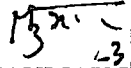
lagoon is now not in use and they are in process to dismantle it. Analysis results of sample collected from this lagoon shows pH – 7.8, COD – 173 mg/l, BOD – 25 mg/l, TSS – 183 mg/l, TDS – 600 mg/l, Color – 15 color units, Sulphate – 91 mg/l, PO₄-P – 0.17 mg/l, NO₃-N – 1.6 mg/l, NO₂-N – 0.02 mg/l and Fluoride – 0.52 mg/l.

11. CETP was not complying with the consent condition to recycle treated effluent to maximum extent.
12. It was observed that Oil & Grease removal chamber has been constructed but presently being used as holding tank before equalization tank.
13. Treated effluent was being discharged into river Kalyani through a nearby drain.

It is evident that CETP, Pantnagar was found non-complying w.r.t. treated effluent quality standards. Industrial effluent received at the inlet of the CETP was not meeting the inlet effluent quality standards prescribed by UKPCB indicating that member units are not complying with CETP inlet quality discharge norms, which effects the treatment efficiency of CETP. The treated effluent discharged from CETP is not meeting the desired discharge standards. Discharge of high Boron containing effluent in river may pose threat to the environment.

AND 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 State Infrastructure & Industrial Development Corporation Uttarakhand Ltd. (SIIDCUL), 29, IIE (IT Park), Sahastradhara Road, Dehradun-248001, Uttarakhand to explain the reason of non-compliance of treated effluent w.r.t. prescribed treated effluent quality standards and non-compliance w.r.t. consent condition to recycle the treated effluent and why environmental compensation should not be imposed.

SIIDCUL shall acknowledge the receipt of Show Cause Notice and submit reply to this office 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.


23/12
(TANMAY KUMAR)
CHAIRMAN

Copy to:

1. **Chairman,**
Uttarakhand Pollution Control Board,
Gaura Devi Bhawan, 46 B, IT Park,
Sahastradhara, Dehradun - 248 001,
Uttarakhand : For kind information and necessary
action, please.
2. **Director General,**
National Mission for Clean Ganga
(MoWR, RD & GR), 1st Floor,
Major Dhyan Chand National Stadium,
India Gate, New Delhi - 110 002 : For kind information, please.
3. **Joint Secretary (CP Division),**
Ministry of Environment, Forest and Climate Change,
Indira Paryavaran Bhawan, Jorbagh Road, Lodhi Road,
New Delhi - 110 003 : For kind information, please.
4. **Regional Officer,**
Regional Office (Kashipur),
Uttarakhand Pollution Control Board,
Chamunda Complex, Ramnagar Road,
Kashipur - 244 713, Uttarakhand : For kind information and necessary
action, please.
- ✓ 5. **In-charge, IT Division, CPCB** : For uploading on CPCB website,
please.


(PRASHANT GARGAVA)
MEMBER SECRETARY