



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

File No. PJ-14013(12)/10/2021-WQM-II-HO-CPCB-HO (CETP Haridwar)

Date:

19/03/2024
11032

To,

The Member Secretary,
Uttarakhand Pollution Control Board,
Gaura Devi Bhawan, 46 B, IT Park,
Sahastradhara, Dehradun - 248 001,
Uttarakhand

DIRECTIONS UNDER SECTION 18 (1) (b) OF THE WATER (PREVENTION AND CONTROL OF POLLUTION) ACT, 1974 REGARDING NON-COMPLIANCE OF COMMON EFFLUENT TREATMENT PLANT (CETP) INSTALLED AT HARIDWAR, UTTARAKHAND

WHEREAS, the Central Board, has delegated powers vested under Section 18 (1) (b) of the Water (Prevention & Control of Pollution) Act, 1974 to the Member Secretary, Central Pollution Control Board vide its resolution made in 196th Board meeting dated 29th March, 2022 to issue direction under Section 18 (1) (b) of the Water (Prevention & Control of Pollution) Act, 1974 to State Board (s); and

WHEREAS, amongst others, under section 16 of the Water (Prevention and Control of Pollution) Act, 1974, one of the functions of the Central Pollution Control Board, constituted under the Water (Prevention and Control of Pollution) Act, 1974 is to coordinate activities of the State Pollution Control Boards & Pollution Control Committees to provide technical assistance and guidance to SPCBs/PCCs; 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 Board, constituted under the Water (Prevention & Control of Pollution) Act, 1974 is to plan a comprehensive programme for the prevention, control or abatement of pollution of streams and wells located in the State and to secure the execution thereof; and

WHEREAS, under Section 25 of the Water (Prevention and Control of Pollution) Act, 1974, no person shall, without the previous consent of the State Pollution Control Board establish or take any steps to establish any industry, operation or process or any treatment or disposal system or any extension or addition thereto, which is likely to discharge sewage or trade effluent into a stream or well or sewer or on land; and

Contd.

‘परिवेश भवन’ पर्वी अर्जुन नगर, दिल्ली-110032

Parivesh Bhawan, East Arjun Nagar, Delhi-110032

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

WHEREAS, the 9 MLD CETP located at the Integrated Industrial Estate (IIE), Haridwar, Uttarakhand (here in after referred as 'CETP') is designed to treat effluent generated (industrial effluent and sewage) from 549 industrial units located in the Integrated Industrial Estate (Haridwar, Uttarakhand). The member units comprise a mixed type of industries encompassing metal processor/auto parts, plastic/rubber moulders, pharma (formulation), cosmetics, electrical & electronics, packaging/warehouse/others, food products and textile. The CETP is owned by the State Infrastructure and Industrial Development Corporation of Uttarakhand Limited (SIIDCUL) and operated by M/s SK UEM Water Projects Pvt. Ltd.; and

WHEREAS, CETP was inspected by CPCB officials on 16/05/2023 regarding "SMS alert based inspection: Environmental surveillance of 17 categories of high pollution potential industries and common facilities based on Online Continuous Emission Monitoring System (OCEMS) data". The treated effluent of CETP was found complying w.r.t. treated effluent quality standards and OCEMS installed at outlet of the CETP was found connected with CPCB server. However, following issues in OCEMS data transmission with CPCB server were observed:

1. No data for the parameters namely pH, TSS, BOD & COD was received during Dec 7-15, 2022.
2. No data for the parameter-pH was received since Jul 25, 2023 onwards.
3. No data was received since Aug 3, 2023 onwards.

AND WHEREAS, CPCB issued letter dated 06/10/2023 to SIIDCUL to restore the OCEMS data transmission to CPCB server immediately and provide continuous data transmission to CPCB server; and

WHEREAS, CETP was inspected by CPCB officials on 31/07/2023 and found non-complying w.r.t. treated effluent quality standards prescribed by UKPCB for Fluoride-3 mg/l (against norm of 2 mg/l). Industrial effluent received at the inlet of the CETP was meeting the inlet effluent quality standards prescribed by UKPCB except for TDS-2188 mg/l (against norm of 2100 mg/l); and

WHEREAS, CPCB issued direction dated 31/10/2023 under section 5 of the Environment (Protection) Act, 1986 to SIIDCUL and was directed to comply with the following directions:

1. Ensure proper operation and maintenance of the CETP to meet out the consented discharge norms.
2. SIIDCUL shall identify and take necessary action against the member units which discharges effluent without meeting the CETP inlet norms prescribed by UKPCB.
3. SIIDCUL shall ensure uninterrupted connectivity and 24×7 OCEMS data transmission to CPCB server.

AND WHEREAS, SIIDCUL vide letter dated 29/12/2023 submitted that:

1. The OCEMS has been installed by the CETP operator at CETP outlet on five (5) years Comprehensive Annual Maintenance Contract (CAMC) through a Contract Agreement.
2. The vendor fails to respond in time on several occasions, hence operator is exploring the option to replace the existing vendor to ensure uninterrupted 24x7 connectivity. As on 29/12/2023, the parameters Flow, BOD, COD & TSS are being analyzed and transmitted to the CPCB server continuously.
3. The pH sensor needs to be replaced, which is under process and shall be replaced within 30 days, however the routine monitoring of all parameters including pH are being done at in-house laboratory by the CETP operator.

AND WHEREAS, CETP was inspected by CPCB officials on 23/11/2023 and following observations were made:

1. CETP was found operational on the day of the inspection and the utilized capacity was 7.89 MLD.
2. Online Continuous Emission Monitoring Systems (OCEMS) was found installed at outlet of the CETP and connected with CPCB server.
3. Flow meters were installed at the inlet and outlet of the CETP and were found functional.
4. CETP do not have valid Consent to Operate and Authorization issued by UKPCB. The Consolidated Consent to Operate and Authorization (CCA) granted by UKPCB under Water Act, 1974, Air Act, 1981 and Hazardous and Other Waste (Management and Transboundary Movement) Rules, 2016 to M/s State Industrial & Development Corp. of Uttarakhand Ltd. (SIDCUL) was valid up to 30/09/2023. The CETP has not provided the copy of CCA renewal application.
5. Treated effluent of CETP was found non-complying w.r.t. treated effluent quality standards for **BOD-83 mg/l (against norm of 30 mg/l)**.
6. Industrial effluent received at the inlet of the CETP was not meeting the inlet effluent quality standards prescribed by UKPCB for **BOD-800 mg/l (against norm of 500 mg/l), COD-1254 mg/l (against norm of 900 mg/l), Oil & Grease-78 mg/l (against norm of 20 mg/l) and Chromium-2.323 mg/l (against norm of 2 mg/l)**.
7. The OCEMS readings during the sampling period, were observed for the effluent quality parameters, namely pH: 5.28 (against lab results 7.8), BOD: 10.65 mg/l (against lab results 83 mg/l), COD: 46.63 mg/l (against lab results 191 mg/l) and TSS: 9.69 (against lab results BDL).
8. The UV based disinfection system was found non-operational.
9. Logbook for sludge generation and disposal was not provided.
10. Treated effluent was discharged into the Rawli Rao drain which finally meets river Sukhi, a tributary of river Ganga. Treated effluent was also used to prepare dosing chemicals, centrifuge flushing, toilet flushing, gardening and other construction works, etc.
11. Laboratory analysis results of CETP inlet and outlet are annexed.

AND WHEREAS, it is evident that CETP, Haridwar, was not operated and maintained properly to comply with the treated effluent discharge norms and found non-complying with respect to the treated effluent quality standards. Industrial effluent received at the inlet of the CETP was also not meeting the inlet effluent quality standards prescribed by UKPCB indicating that member units were not complying with CETP inlet effluent quality standards; and

NOW THEREFORE, in exercise of powers conferred under section 18 (1) (b) of the Water (Prevention & Control of Pollution) Act, 1974, Uttarakhand Pollution Control Board (UKPCB) is hereby directed to take appropriate action for compliance of the following:

1. UKPCB to take action, as deemed fit, including levying of environmental compensation against non-complying CETP or member industries that do not have adequate treatment facilities to comply with the norms.
2. UKPCB to establish a surveillance team to monitor member industries to ensure their compliance with the CETP inlet effluent quality standards including compliance of effluent discharge standards by CETP.
3. UKPCB to ensure compliance of the following by the CETP:
 - o It operates and maintains the treatment system, appropriately, so as to meet the consented discharge norms.
 - o It operates only with valid Consolidated Consent & Authorization (CCA) under Water Act, 1974, Air Act, 1981 and Hazardous and Other Waste (Management and Transboundary Movement) Rules, 2016.
 - o It undertakes regular calibration & maintenance of the OCEMS as per standard operating procedures/recommendations of the suppliers, so as to ensure of generating continuous and reliable data.
 - o It maintains proper logbook for CETP operations, effluent flow (inlet & outlet), energy meter, chemical consumption & sludge disposal and made it available to monitoring teams at the time of inspection.

UKPCB shall acknowledge receipt of these directions immediately and submit the action taken report to CPCB within 15 days of receipt of this direction.


(Bharat Kumar Sharma)
MEMBER SECRETARY

Copy to:

1. **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.
2. **Additional Secretary (CP Division),**
Ministry of Environment Forests & CC,
Indira Paryavaran Bhawan, Jor Bagh Road,
New Delhi - 110 003
: For kind information,
please.
3. **District Magistrate- Haridwar,**
Collectorate, Roshanabad,
Haridwar-249403, Uttarakhand
: For kind information,
please.
4. **Regional Director,**
Regional Directorate (North),
Central Pollution Control Board,
PICUP Bhawan, Vibhuti Khand, Gomti Nagar,
Lucknow 226010, Uttar Pradesh
: For kind information and
follow-up, please.
5. **Regional Officer,**
Regional Office (Roorkee),
Uttarakhand Pollution Control Board,
Irrigation Design Building, Canal Road,
Roorkee (Haridwar) – 247667
Uttarakhand
: For kind information and
necessary action, please.
6. **In-charge, IT Division, CPCB**
: For uploading the direction
on CPCB website, please.


(Bharat Kumar Sharma)
MEMBER SECRETARY

o/c

Annexure: Laboratory analysis results of CETP inlet & outlet

(Date of inspection-23/11/2023)

S. No.	Parameter	Location of sampling	
		Inlet (untreated effluent)	Outlet (treated effluent)
1.	pH	7.2	7.8
2.	Conductivity (µmho/cm)	Not analyzed	Not analyzed
3.	COD (mg/l)	1254	191
4.	BOD (mg/l)	800	83
5.	TSS (mg/l)	408	BDL
6.	TDS (mg/l)	1316	1060
7.	FDS (mg/l)	Not analyzed	980
8.	Cl ⁻ (mg/l)	Not analyzed	122
9.	Fluoride (mg/l)	2.7	1.1
10.	NO ₃ -N (mg/l)	Not analyzed	2.1
11.	NO ₂ -N (mg/l)	Not analyzed	Not analyzed
12.	Total Kjeldahl Nitrogen - TKN (mg/l)	26	25
13.	Phosphate (mg/l)	Not analyzed	1.2
14.	SO ₄ ²⁻ (mg/l)	Not analyzed	46
15.	NH ₃ -N (mg/l)	24	23
16.	Phenol (mg/l)	0.2	0.1
17.	Oil & Grease (mg/l)	78	BDL
18.	Cr ⁶⁺ (mg/l)	BDL	BDL
19.	Cyanide (mg/l)	0.26	0.19
20.	Boron (mg/l)	1.5	1.1
21.	Total Mercury (mg/l)	0.00023	0.00112
22.	Total hardness (mg/l)	Not analyzed	Not analyzed
23.	As (mg/l)	BDL	BDL
24.	Cd (mg/l)	BDL	BDL
25.	Cr (mg/l)	2.323	0.034
26.	Cu (mg/l)	0.623	0.021
27.	Fe (mg/l)	7.616	0.246
28.	Mn (mg/l)	0.220	0.126
29.	Ni (mg/l)	0.413	0.113
30.	Pb (mg/l)	0.048	BDL
31.	Se (mg/l)	BDL	BDL
32.	V (mg/l)	0.007	BDL
33.	Zn (mg/l)	1.531	0.041
34.	Sb (mg/l)	Not analyzed	Not analyzed
35.	Aeration Tank-1: MLSS – 2854 mg/l; MLVSS – 1977 mg/l		

BDL-Below detection limit