



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

F. No. PJ-14013(12)/4/2021-WQM-II-HO-CPCB-HO (CETP-Pantnagar) Date: Sep 5, 2023

4023

To,

M/s Pantnagar CETP Pvt. Ltd. (PCETPPL),  
Sector-IIDC, IIE, SIIDCUL, Pantnagar,  
Udham Singh Nagar  
Uttarakhand-263153

**DIRECTIONS UNDER SECTION 5 OF THE ENVIRONMENT (PROTECTION) ACT, 1986 REGARDING NON-COMPLIANCE OF COMMON EFFLUENT TREATMENT PLANT (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**, the 4 MLD Common Effluent Treatment Plant located at the Integrated Industrial Estate, Sector - IIDC, IIE, Pantnagar, Tehsil - Kichcha, District Udham Singh Nagar, Uttarakhand (here in after referred as 'CETP') is designed to treat effluent generated from 520 industrial units located in Integrated Industrial Estate (Pantnagar, Uttarakhand). The CETP is connected with 290 member units and is owned by the State Infrastructure & Industrial Development Corporation Uttarakhand Limited (SIIDCUL) which has sublet the operation & maintenance work to M/s Pantnagar CETP Pvt. Ltd. (PCETPPL), an SPV of Ramky Infrastructure Pvt. Ltd. (here in after referred as 'the operator'); and

**WHEREAS**, CETP was inspected by CPCB officials on 19/08/2021 and industrial effluent received at the inlet of the CETP was not meeting the inlet effluent quality standards. CPCB issued a letter dated 01/11/2021 to M/s Ramky Infrastructure Pvt. Ltd. (sub-contractor responsible for O&M of CETP) to improve the functioning of the CETP Pantnagar; and

Contd.

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

**WHEREAS**, CETP was inspected by CPCB officials on 22/09/2021 and found non-complying w.r.t. treated effluent discharge standards prescribed by Uttarakhand Pollution Control Board (UKPCB) for Fluoride-2.1 mg/L (against norm of 2 mg/L) and Boron-15.48 mg/L (against norm of 2 mg/L). 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 norm of 5.5-9), BOD-716 mg/L (against norm of 550 mg/L), COD-1262 mg/L (against norm of 1000 mg/L), Boron-10.73 mg/L (against norm of 2 mg/L) and Lead-2.2 mg/L (against norm of 1 mg/L). CETP was not complying with the consent condition to recycle treated effluent to maximum extent; and

**WHEREAS**, CPCB issued Show Cause Notice dated 23/12/2021 under section 5 of the Environment (Protection) Act, 1986 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 effluent quality discharge standards and why environmental compensation should not be imposed; and

**WHEREAS**, SIIDCUL vide letter dated 13/01/2022 submitted that CETP at IIE Pantnagar is being operated by M/s Pantnagar CETP Pvt. Ltd. (PECTPPL) under BOT model vide agreement dated 28/06/2006 between operator and SIIDCUL, for which CCA upto 31/03/2022 has been issued to the operator (M/s Pantnagar CETP Pvt. Ltd.) by UKPCB. SIIDCUL informed that the compliance of standards prescribed by UKPCB is responsibility of the operator; and

**WHEREAS**, PCETPPL submitted their reply vide letter dated 10/02/2022 and stated the following:

1. The flow meter at outlet was giving problems frequently. Flow meter has been sent for refurbishment and will be made operational by end of March, 2022.
2. CETP ensures that the quality of treated effluent should be within the prescribed norms. Treated effluent is analyzed by a reputed NABL accredited laboratory periodically for confirmation. CETP submitted the laboratory analysis report to show that the treated effluent is meeting the discharge norms.
3. All the member industries are supposed to ensure the effluent standards before discharging to CETP as prescribed by the UKPCB. SIIDCUL and PCETPPL together have to establish a monitoring mechanism at industry level, before discharging the effluents to CETP.
4. Since the treated effluent is suitable for green belt development and other industrial purpose, the concerned authorities and SIIDCUL have been requested to make it mandatory and issue directions to the industries for use of the treated effluent. The effluent is being discharged into drain as per the Consent to Operate.

**AND WHEREAS**, CETP was inspected by CPCB officials on 09/03/2022 and found non-complying w.r.t. treated effluent discharge standards for Boron-4.85 mg/L (against norm of 2.0 mg/L),  $\beta$ -HCH-0.453  $\mu$ g/L (against norm of "Absent") and p, p' DDE-0.244  $\mu$ g/L (against norm of "Absent"). Industrial effluent received at the inlet of the CETP was not meeting the inlet

effluent quality standards prescribed by UKPCB for pH-2.8 (against norm of 5.5-9.0), BOD-813 mg/L (against norm of 550 mg/L), COD-2033 mg/L (against norm of 1000 mg/L), Boron-5.6 mg/L (against norm of 2.0 mg/L), Lead-18.32 mg/L (against norm of 1.0 mg/L) and Mercury-3.21 mg/L (against norm of 0.01 mg/L); and

**WHEREAS**, CETP was inspected by CPCB officials on 15/06/2022 and found non-complying w.r.t. treated effluent quality standards for Fluoride-3.14 mg/L (against norm of 2 mg/L) and p, p'-DDE- 0.388 mg/L (against norm of "Absent"). Industrial effluent received at the inlet of the CETP was not meeting the inlet effluent quality standards prescribed by UKPCB with pH-2.8 (against norm of 5.5-9.0) and Pb-1.96 mg/L (against norm of 1 mg/L); and

**WHEREAS**, the Hon'ble National Green Tribunal (NGT), Principal Bench in the matter of OA No. 593/2017 (WP (CIVIL) No. 375/2012), Paryavaran Suraksha Samiti & Anr. Vs. Union of India & Ors. directed Central Pollution Control Board (CPCB) 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 the above quoted Hon'ble NGT order, cases to be considered for levying environmental compensation regarding discharges in violation of consent conditions/non-compliance with the directions, such as direction for closure due to non-installation of OCEMS/non-adherence to the action plans submitted/intentional avoidance of data submission or data manipulation by tampering OCEMS; and

**WHEREAS**, as per the "Policy for levying Environmental Compensation for industries" dated 04/09/2019, environmental compensation to PCETPPL for the non-compliance period of 99 days (09/03/2022 – 15/06/2022) is calculated as **Rs. 3,71,250/-** (Rupees Three Lacs Seventy One Thousand Two Hundred Fifty only) for the non-compliance period (09/03/2022 – 15/06/2022). The details of calculation are as under:

Time period		N	PI	R	S	LF	Total Amount
From	To						
09/03/2022	15/06/2022	99	30	250	0.5	1	<b>EC= N×PI×R×S×LF</b> <b>EC=99×30×250×0.5×1</b> <b>EC= Rs. 3,71,250/-</b>

EC calculations details: N= No. of days of violation; PI= Pollution index; R= A factor in Rupees for EC; S= Scale of operation; LF= Location factor.

**AND WHEREAS**, CPCB issued Show Cause Notice dated 16/11/2022 under section 5 of the Environment (Protection) Act, 1986 to PCETPPL to Show Cause as to why the operation of CETP Pantnagar, Uttarakhand and its member units should not be closed down and why environmental compensation of Rs. 3,71,250/- (Rupees Three Lacs Seventy One Thousand Two Hundred Fifty only) shall not be levied for the non-compliance period from 09/03/2022 to 15/06/2022 till the CETP is stabilized, inlet and outlet standards are met with; and

**WHEREAS**, PCETPPL reply dated 29/11/2022 was examined; and

**WHEREAS**, CETP, Pantnagar, Uttarakhand was inspected by CPCB officials on 17/01/2023 and following observations were made:

1. CETP was found operational on the day of inspection on 17/01/2023 and the utilized capacity was 0.45 MLD.
2. Flow meters were installed at the inlet and outlet of the CETP and were found functional.
3. Online Continuous Emission Monitoring System (OCEMS) was installed at the outlet of the CETP and was found functional.
4. Treated effluent of CETP was found complying w.r.t. treated effluent quality standards except for trace level of a pesticide namely p, p'-DDE-0.04 µg/L (against norm of "Absent"). Values of other parameters observed as pH – 7.9 (against norm of 6.5 – 9.0), BOD as 5 mg/L (against norm of 30 mg/L), COD as 19 mg/L (against norm of 250 mg/L), TSS as 11 mg/L (against norm of 100 mg/L), FDS-460 mg/L (against norm of 2100 mg/L), Chloride as 71 mg/L (against norm of 1000 mg/L), Ammoniacal Nitrogen as 1 mg/L (against norm of 50 mg/L), Sulphate as 92 mg/L (against norm of 1000 mg/L), Boron-BDL (against norm of 2 mg/L), Fluoride-0.49 mg/L (against norm of 2 mg/L) and Cyanide-BDL (against norm of 0.2 mg/L).
5. Industrial effluent received at the inlet of the CETP was not meeting the inlet effluent quality standards prescribed by UKPCB for Mercury-2.33 µg/L (against norm of 0.01 µg/L). Pesticides were found in the raw effluent received at CETP inlet: α-HCH-0.104 µg/L, β-HCH-0.767 µg/L, γ-HCH-0.222 µg/L and p,p'-DDE-0.155 µg/L.
6. MLSS and MLVSS in the Aeration Tank were 1196 mg/L and 679 mg/L, respectively.
7. During inspection, the treated effluent was being discharged into river Kalyani.
8. Sludge in first chamber of Oil & Grease Trap was not cleaned.
9. In Primary Clariflocculator, flocculation was not effective in full area of feed well.
10. Centrifuge was found defunct due to broken mechanical equipment.
11. Groundwater samples from 03 locations (01 inside CETP premises and 02 in Integrated Industrial Estate, Pantnagar) were collected. Boron and Fluoride in groundwater were found as 0.4-1.1 mg/L and 0.2-0.3 mg/L, respectively. Pesticides were found below detection limit except Dieldrin-0.067 µg/L (against norm of 0.03 µg/L) in groundwater sample collected inside CETP premises.

**AND WHEREAS**, PCETPPL has requested UKPCB vide its letter dated 15/03/2023 to amend the discharge norms for pesticides in the consent issued to the CETP. PCETPPL has provided a copy of the letter to CPCB; and

**WHEREAS**, PCETPPL was granted opportunity of personal hearing which was held on 17/03/2023 before the CPCB's Four-Member committee constituted to examine the representations against environmental compensation and following were the recommendations:

1. CETP has been non-complying w.r.t. norms of fluoride and boron in treated wastewater during various occasions in 3 consecutive inspections carried out by CPCB. Non-

compliance was also noticed in pesticide compounds ( $\beta$ -HCH and p, p' DDE), due to presence of compounds in trace levels. After the first inspection in September, 2021 notice was issued to State Infrastructure and Industrial Development Corporation of Uttarakhand Limited (SIIDCUL) and subsequently, based on re-inspections on 09/03/2022 and 15/06/2022 directions were issued to operator of CETP on 16/11/2022.

2. CETP demonstrated compliance to fluoride and boron in samples collected on 17/01/2023, subsequent to issuance of directions by CPCB on 16/11/2022. It is also observed that the facility could comply to said parameters merely by identifying the industries responsible and by avoiding the discharge of particular chemical effluent to CETP.
3. The pesticide compounds in treated wastewater were at trace levels, much below the effluent discharge standards notified for pesticide industry under E (P) Rules, 1986 and certain are much below the drinking water standards, also the compounds were banned and not manufactured across the world. Such a low level may also indicate uncertainty in analysis. Therefore, committee is of the opinion that the facility may not be treated as non-complying with respect to  $\beta$ -HCH and p, p' DDE.
4. CETP as well as the member industries had failed to ensure effluent quality standards at the inlet to CETP repeatedly for various parameters as prescribed by UKPCB.

**AND WHEREAS**, CPCB vide letter dated 24/04/2023 forwarded the minutes of personal hearing held on 17/03/2023 to PCETPPL; and

**WHEREAS**, CPCB vide letter dated 01/05/2023 directed PCETPPL to identify the member units responsible for discharging high mercury concentration in effluent reaching to the CETP and 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 CETP may function properly to achieve desired treated effluent quality norms prescribed by UKPCB; and

**WHEREAS**, PCETPPL reply dated 22/05/2023 was examined; and

**It is evident that CETP, Pantnagar, 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 for Fluoride and Boron during the period from 09/03/2022 to 15/06/2022 (99 days). 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. The discharge of partially treated effluent from CETP, non-compliant with discharge norms, posed potential threat to the ambient environment quality.**

**Further, CETP was found complying with respect to treated effluent quality standards on 17/01/2023. Since, CETP Pantnagar discharged partially treated effluent during 09/03/2022 to 15/06/2022, therefore environmental compensation of Rs. 3,71,250/- shall be submitted by M/s Pantnagar CETP Pvt. Ltd.**

**AND NOW THEREFORE**, in view of the above observations and in exercise of the powers delegated to the Chairman, Central Pollution Control Board under section 5 of the Environment (Protection) Act, 1986, M/s Pantnagar CETP Pvt. Ltd. (PCETPPL) is hereby directed to comply with the following directions:

1. PCETPPL shall deposit the Environmental Compensation (EC) amount of **Rs. 3,71,250/-** (Rupees Three Lacs Seventy One Thousand Two Hundred Fifty only) for the period of non-compliance of 99 days (09/03/2022 to 15/06/2022) into the CPCB A/c No. 532702050000164 (Bank name: Union Bank of India, IP Extension Branch, Vikas Marg Extn., Delhi; IFSC: UBIN0553271) within 15 days of receipt of this direction. In case of delay, simple interest @12% shall be levied for the delay period. Also, the PCETPPL shall provide detail of EC amount deposited to CPCB within 15 days from date of receipt of direction. EC deposited in the CPCB account will be spent by CPCB as per the EC utilization policy as approved by Hon'ble NGT.
2. PCETPPL shall identify and take necessary action against the member units which discharges effluent without meeting the CETP inlet norms prescribed by UKPCB.
3. PCETPPL shall comply with the treated effluent discharge standards prescribed by UKPCB.

You are hereby given an opportunity to file your objections (if any) to the above proposed directions within 15 days from the date of receipt of this direction. In case of default in compliance of above directions, CPCB will be constrained to initiate appropriate action against M/s Pantnagar CETP Pvt. Ltd. (PCETPPL) and the member units connected with CETP Pantnagar in accordance with the provisions of the Environment (Protection) Act, 1986 without any further notice.

13<sup>th</sup> 5/9/23  
(TANMAY KUMAR)  
CHAIRMAN

*Angar*

**Copy to:**

1. **Director General,** : For kind information, please.  
National Mission for Clean Ganga  
(MoWR, RD & GR),  
1<sup>st</sup> Floor, Major Dhyan Chand National Stadium,  
India Gate, New Delhi - 110 002
2. **Additional Secretary (CP Division),** : For kind information, please.  
Ministry of Environment Forests & CC,  
Indira Paryavaran Bhawan, Jorbagh Road,  
New Delhi - 110 003
3. **Member Secretary** : For kind information, please.  
Uttarakhand Pollution Control Board,  
Gaura Devi Bhawan, 46 B, IT Park,  
Sahastradhara, Dehradun - 248 001,  
Uttarakhand
4. **Managing Director,** : For kind information, please.  
SIIDCUL Head Office,  
29, IIE (IT Park), Sahastradhara Road,  
Dehradun-248001, Uttarakhand
5. **Regional Officer,** For kind information, please.  
Regional Office (Kashipur),  
Uttarakhand Pollution Control Board,  
Chamunda Complex, Ramnagar Road,  
Kashipur - 244 713, Uttarakhand
6. **Regional Director,** : For kind information, please.  
Regional Directorate (North),  
Central Pollution Control Board,  
PICUP Bhawan, Vibhuti Khand, Gomti Nagar,  
Lucknow 226010, Uttar Pradesh
7. **In-charge, IT Division, CPCB** : For uploading the direction on  
CPCB website, please.



**(BHARAT KUMAR SHARMA)**  
**MEMBER SECRETARY**