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) **Dated: 16Nov, 2022**

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To,

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

SHOW CAUSE NOTICE 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 (here in after referred as 'CETP') is located at the 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 designed to treat effluent generated from 520 industrial units located in Integrated Industrial Estate (Pantnagar, Uttarakhand). The CETP is connected with 290 member units. The operating agency of CETP is M/s Pantnagar CETP Pvt. Ltd. (PCETPPL), an SPV of Ramky Infrastructure Pvt. Ltd., which is responsible for operation & maintenance of the CETP; 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.

WHEREAS, CETP was inspected by CPCB officials on 22/09/2021 and it was 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, Pantnagar, Uttarakhand was inspected by CPCB officials on 09/03/2022 and following observations were made:

1. The CETP, Pantnagar, Uttarakhand was operational on the day of inspection and utilized capacity was 1.7 MLD.

2. CETP was connected with 290 member units.
3. Flow meters were installed at the inlet and outlet of the CETP.
4. Online Continuous Emission Monitoring System (OCEMS) was installed at the outlet of CETP and connected to CPCB server.
5. The CETP was granted Consolidated Consent to Operate and Authorization on 20/01/2022 under Water Act, 1974, Air Act, 1981 and Hazardous and Other Waste (Management and Transboundary Movement) Rules, 2016 by UKPCB which was valid upto 31/03/2022. The CETP has also applied for renewal of CCA on dated 03/03/2022 and provided a copy of payment receipt of renewal application for Consent to Operate.
6. Treated effluent of CETP was found non-complying w.r.t. treated effluent quality discharge standards for Boron-4.85 mg/l (against norm of 2.0 mg/l), β-HCH-0.453 µg/L (against norm of "Absent") and p, p' DDE-0.244 µg/L (against norm of "Absent"). Values of other parameters were observed as pH – 7.2 (against norm of 5.5 – 9.0), BOD as 18 mg/l (against norm of 30 mg/l), COD as 95 mg/l (against norm of 250 mg/l), TSS as 63 mg/l (against norm of 100 mg/l), TDS as 1264 mg/l (against norm of 2100 mg/l), Chloride as 165 mg/l (against norm of 1000 mg/l), Ammoniacal Nitrogen as 28 mg/l (against norm of 50 mg/l), Fluoride as 2.0 mg/l (against norm of 2.0 mg/l) and Sulphate as 428 mg/l (against norm of 1000 mg/l).
7. 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), 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).
8. MLSS and MLVSS in the aeration tank were 2045 mg/l and 1610 mg/l, respectively.
9. CETP was not complying with the consent condition to recycle treated effluent to maximum extent.
10. Treated effluent was discharged in to river Kalyani through a sewer line (under gravity).
11. Log books for laboratory analysis, sludge generation & disposal and pump operations were maintained.
12. Centrifuge and sludge thickener (without Gearbox and chain of sprocket) were found defunct due to broken mechanical component.
13. Mixing arrangement for homogenization in Equalization tank was not provided.

AND WHEREAS, CETP, Pantnagar, Uttarakhand was inspected by CPCB officials on 15/06/2022 and following observations were made:

1. The CETP, Pantnagar, Uttarakhand was operational on the day of inspection and utilized capacity was 1.99 MLD.
2. The CETP is based on Activated Sludge Process followed by filtration and its major components are: Inlet (Pump Sump)→Equalization Tank→Flash Mixer→Clariflocculator→Activated Sludge Process (Aeration Tank)→Secondary Clarifier→PSF→Final Outlet→Discharge in Kalyani River.
3. CETP is connected with 290 member units.
4. Flow meters were installed at the inlet and outlet of the CETP and were found functional.

5. OCEMS was installed at the outlet of the CETP and was found functional.
6. The CETP was granted Consolidated Consent to Operate and Authorization on 20.01.2022 under Water Act, 1974, Air Act, 1981 and Hazardous and Other Waste (Management and Transboundary Movement) Rules, 2016 by UKPCB which was valid upto 31.03.2022. The CETP has applied for renewal of CCA on 03.03.2022 and provided a copy of payment receipt of renewal application for Consent to Operate.
7. **Treated effluent of CETP was found non-complying w.r.t. treated effluent quality discharge standards with Fluoride-3.14 mg/l (against norm of 2 mg/l) and p, p'-DDE- 0.388 mg/l (against norm of "Absent").** Values of other parameters were observed as pH – 7.4 (against norm of 6.5 – 9.0), BOD as 7 mg/l (against norm of 30 mg/l), COD as 79 mg/l (against norm of 250 mg/l), TSS as 52 mg/l (against norm of 100 mg/l), Chloride as 307 mg/l (against norm of 1000 mg/l), Ammoniacal Nitrogen as 12 mg/l (against norm of 50 mg/l), Sulphate as 525 mg/l (against norm of 1000 mg/l), Boron-BDL (against norm of 2 mg/l), Cyanide-BDL (against norm of 0.2 mg/l) and Oil & Grease-BDL (against norm of 10 mg/l).
8. **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).** Values of other parameters observed as BOD-63 mg/l, COD-227 mg/l, TSS - 79 mg/l, Chloride -97 mg/l, Ammonical Nitrogen- 14 mg/l, Sulphate -860 mg/l, Boron-BDL and Fluoride-0.65 mg/l.
9. MLSS and MLVSS in the Aeration Tank were 487 mg/l and 328 mg/l, respectively.
10. The treated effluent was being discharged into river Kalyani however as per consent condition the treated effluent shall be recycled to the maximum extent.
11. Sludge thickener and RAS pump were found defunct during inspection.
12. Wet sludge was found in sludge drying bed during inspection.
13. CETP has one bore-well inside premises for groundwater extraction and electromagnetic flow meter was installed at the bore-well.
14. Logbooks were maintained for CETP inlet & outlet flow, power consumption, laboratory analysis and groundwater extraction. However, logbook for sludge generation and disposal was not maintained.

It is evident that CETP, Pantnagar is not operated & maintained properly to comply with the treated effluent discharge norms and found continuously non-complying w.r.t. treated effluent quality discharge 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. Discharge of treated effluent containing high concentration of Boron, Fluoride and Pesticide (beta-HCH and p,p-DDE) is posing potential threat to water quality of the recipient water body and its ecosystem.

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 penalty are 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 methodology for assessing penalty and environmental compensation, the environmental compensation to be levied on **M/s Pantnagar CETP Pvt. Ltd. (PCETPPL), Sector-IIDC, IIE, SIIDCUL, Pantnagar, Udham Singh Nagar-263153, Uttarakhand** 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	**EC= N×PI×R×S×LF** **EC=99×30×250×0.5×1** **EC= Rs. 3,71,250/-**

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.

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), Sector-IIDC, IIE, SIIDCUL, Pantnagar, Udham Singh Nagar-263153, Uttarakhand** is hereby directed 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.

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 notice, failing which CPCB will be constrained to initiate appropriate action against M/s Pantnagar CETP Pvt. Ltd. (PCETPPL), in accordance with the provisions of the Environment (Protection) Act, 1986 without further notice.

(TANMAY KUMAR)
CHAIRMAN

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, Jorbagh Road,
   New Delhi - 110 003
   : For kind information, please.

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

4. **Managing Director,**
   SIIDCUL Head Office,
   29, IIE (IT Park), Sahastradhara Road,
   Dehradun-248001, Uttarakhand

   : With request to UKPCB and SIDCUL to identify the member units discharging non-compliant parameters namely Boron, Fluoride and organochlorine pesticides and take necessary action. Action taken report shall be submitted to CPCB within 30 days from the date of issuance of this direction, please.

5. **Regional Officer,**
   Regional Office (Kashipur),
   Uttarakhand Pollution Control Board,
   Chamunda Complex, Ramnagar Road,
   Kashipur - 244 713, Uttarakhand
   : For kind information, please.

6. **Regional Director,**
   Regional Directorate (North),
   Central Pollution Control Board,
   PICUP Bhawan, Vibhuti Khand, Gomti Nagar,
   Lucknow 226010, Uttar Pradesh
   : For kind information, please.

7. **In-charge**, IT Division, CPCB
   : For uploading the direction on CPCB website, please.

(PRASHANT GARGAVA)
MEMBER SECRETARY