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B-190188/CETP-Rooma/PIAS/WQM-II/CPCB/2017-18/ 3874

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To,

Chairman
Rooma Pollution Control Association (RPCA)
26/71, 1st Floor, Above HDFC Bank,
Birthana Road, Kanpur-208001,
Uttar Pradesh

**DIRECTION UNDER SECTION 5 OF THE ENVIRONMENT (PROTECTION) ACT,
1986**

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 concerned State/UT and to secure the execution thereof; and

WHEREAS, the Central Government has notified the standards for discharge of environmental pollutants from various categories of industries and from common effluent treatment plants under the Environment (Protection) Act, 1986 and the rules framed there under; and

WHEREAS, under Section 17 of the Water (Prevention and Control of Pollution) Act, 1974, one of the functions of the SPCBs is to lay down effluent standards for industries and CETPs; and SPCBs may specify standards more stringent than those (National) standards specified by the Central Government under the Environmental (Protection) Act, 1986 the Rules framed there under, depending upon the quality of the recipient system and local conditions; and

WHEREAS, 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, Common Effluent Treatment Plant (CETP), UPSIDC Industrial area, Textile Park, Rooma, was constructed with design capacity of 1.55 MLD & commissioned by UPSIDC and handed over in November 2017 to Rooma Pollution Control Association (Association of all member unit in the zone) for subsequent operation & maintenance; and

WHEREAS, there are 18 member units of CETP, out of which 13 no. of member units are presently operational and have been granted NOC & consent by UPPCB to discharge primary treated effluent in to the CETP; and

WHEREAS, all member units have their individual operational Primary Effluent Treatment Plant (PETP) for primary treatment of textile effluent to meet the prescribed effluent discharge standards. Primary treated effluent of all member units discharged to the CETP for final treatment & disposal of treated effluent as per the stipulated effluent discharge norms; and

WHEREAS, CETP, Rooma was inspected by CPCB official on 21.05.2018 and found non-functional during inspection and member textile units were discharging their untreated effluent into land/ surface water bodies posing potential threat of water pollution; and

WHEREAS, CPCB issued closure direction dated 12.06.18 under section 5 of the Environment (Protection) Act, 1986 to 10 nos. of operational member units of CETP, ROOMA to stop manufacturing operations immediately and submit the adequacy report of CETP and individual PETP duly validated by reputed government institution; and

WHEREAS, Rooma Pollution Control Association vide letter dated 16.08.2018 submitted the adequacy report of CETP, Rooma and the individual Units have also submitted adequacy report of their PETPs; and

WHEREAS, the adequacy report of CETP, Rooma was examined and two treatment units of the CETP were found inadequate. Primary tube settlers which were found inadequate, as the primary tube settlers have capacity adequate to treat only 776 m³/day against CETP designed capacity of 1550 m³/day of influent and aeration tank has retention time of 10.3 hours against the required 18-24 hours; and

WHEREAS, CPCB issued direction dated 24.09.2018 under section 5 of the Environmental (Protection) Act, 1986 to member units of CETP, Rooma to comply with the following directions:

1. All member units shall resume operation at 50% of consented production capacity and shall treat their effluent through PETP to meet the effluent discharge standards as notified for the CETP dated 01.01.2016 till upgradation of CETP.
2. All member Unit shall immediately inform to CPCB regarding the resumption of operations

AND WHEREAS, CPCB issued direction dated 24.09.2018 under section 5 of Environment (Protection) Act, 1986 to upgrade its CETP by following:

1. Installation of tube settler/ clarifier of the required settling area in parallel to the existing units.
2. Enhancement of the capacity of aeration tank to achieve the required HRT.

AND WHEREAS, CETP Rooma has not submitted any reply/ compliance in respect of CPCB directions; and

WHEREAS, CETP, Rooma was inspected by team of officials from CPCB on 26.11.2018 and following observations were made:

1. CETP, Rooma was found operational during inspection.

2. CETP has one tubewell, logbook for fresh water consumption is not maintained.
3. Operation and maintenance of the CETP is unsatisfactory.
4. Consents of CETP, Rooma under Air and Water Acts were valid upto 31st December,2018.
5. New sludge drying beds were under construction during the visit.
6. Analysis results of CETP outlets showed pH -7.75 (against norms of 6.0-9.0), SS – 49.6 (against norms of 100 mg/l), BOD -29.5 (against norms of 30 mg/l), COD – 103 (against norms of 250 mg/l), color- 300 (against norms of 150 Hazen unit); TDS – 5558 mg/l (against norms of 2100 mg/l); and SAR ratio – 33.3 (against norms of 26). Analysis results indicate that CETP was found non- complying w.r.t. color, TDS and SAR ratio.
7. Analysis results of ground water sample from borewell in CETP premises showed color- 60 (against norms of 5 Hazen unit); TDS – 3483 mg/l (against norms of 500 mg/l), Chloride- 1313 (against norms of 250 mg/l), Calcium- 199 (against norms of 75 mg/l), Magnesium -169 (against norms of 30 mg/l), which indicate that groundwater is contaminated and showing exceedance in all above parameters as prescribed by BIS- IS 10500:2012.

AND WHEREAS, CETP, Rooma was inspected by team of officials from CPCB on 11.04.2019 and following observations are made:

1. CETP, Rooma was found operational during inspection.
2. As per information provided by the unit there are 18 member units out of which 5 are under construction. Of the remaining 13 member units, 11 are operational while 2 are closed.
3. CETP comprises of the following units in sequence:
Collection tank, equalization tank, Chemical dosing cum reaction tank, Tube settler I, Tube settler II, Aeration tank, Clarifier, Final collection tank, PSF, ACF & Final outlet. There are sludge thickeners to handle the sludge. Sludge drying beds are in construction.
4. CETP, Rooma has valid consents under Water and Air Acts with validity upto 31.12.2020 to treat 775 KLD pre treated effluent for individual PETPs of member units.
5. Capacity of CETP is reduced from 1.55 MLD to 775 KLD in view of reduction of 50% production capacity of each member unit as per direction of CPCB for effective operation CETP till modification/upgradation of CETP is completed.
6. As per logbook data, between 1st to 10th April 2019 average 788 KLD effluent was treated at the CETP against consented capacity of 775 KLD.
7. CETP received **836 KLD, 903 KLD, 794 KLD, 1016 KLD and 952 KLD** of effluent on **1st, 6th, 7th, 8th and 9th April 2019** respectively and thus violating the consent conditions of restricted capacity of 775 KLD.
8. Receipt of primary treated effluent in excess of 775 KLD indicates that the members units are operating at > 50% of capacity which is in violation of CPCB directions.
9. Only eleven (11) out of eighteen (18) member units are operational and contributing to the quantity of effluent at inlet of CETP.
10. Sludge line from the tube settler to the sludge thickener was choked and non-operational. Sludge was seen flowing and logged in the area between tube settler and aeration tank.

11. Analysis of effluent sample collected from the **inlet of the CETP** shows **pH - 9.12** against norms of 6-9 & **Colour-1500** hazen against norms of 350-400 hazen, which indicate non-compliance with CETP inlet norms as notified by UPPCB.
12. Analysis of effluent from CETP outlet shows pH - 8.12 against norms of 6-9, BOD - 58.2 mg/l against 30 mg/l, COD - 254 mg/l against 250 mg/l, chloride - 2823 mg/l against 1000 mg/l and nitrate as NO₃-N -11 mg/l against 10 mg/l, which indicate non-compliance with effluent discharge norms.
13. The treated effluent is discharged via a drain (further referred to as 'main drain') passing through the CETP premises, However the consent conditions require the CETP to discharge the treated effluent into irrigation channel for further use in irrigation.
14. A constructed surface run off drain in the CETP premises run parallel to the CETP and it discharges into the main drain through a separate point. Chances of use of the drain as a bypass line cannot be ruled out.
15. As permitted by Central Ground Authority (CGWA), the unit has two tube wells in its premises. However, the unit has installed flow meter on only one of the two tube wells and does not have any log book to record daily/monthly abstraction of ground water, which is in violation of the CGWA NOC.
16. Analysis results of ground water sample from borewell in CETP premises showed color- BDL (against norms of 5 Hazen unit); TDS – 426 mg/l (against norms of 500 mg/l), Chloride- 14.3 (against norms of 250 mg/l), Calcium- 11.9 (against norms of 75 mg/l), Magnesium - **48.3** (against norms of 30 mg/l), which indicate that groundwater quality is meeting the norms as prescribed by BIS except Magnesium.
17. Leakages in the walls of tanks at different treatment units were noticed.

AND WHEREAS, CETP Rooma and all member unit are required to implement following suggestive measure besides other pollution control measure:

1. Member units shall not operate above the consented capacity.
2. CETP, Rooma shall ensure that all member units will discharge treated effluent from their PETPs, which meet the effluent discharge standards as notified by UPPCB for the CETP inlet.
3. The unit shall install web camera at the inlet and outlet of the CETP for surveillance of effective operation.
4. Damaged sludge line between tube settler and sludge thickener shall be repaired to avoid sludge spillage and ensure proper sludge handling.
5. Flow meter shall be installed on tubewells and ground water abstraction data of each tube well shall be recorded in log book. Water abstraction shall be made as per the NOC from CGWA.
6. Log book for sludge handling and disposal shall also be maintained.
7. CETP, Rooma shall take all necessary measure to operate the CETP to comply with the discharge norms stipulated for CETP.
8. CETP, Rooma will maintain the proper logbooks for inlet/outlet flow, pump operations, maintenance/ breakdown, solid waste generation & disposal and borewell operation.
9. Constructed surface runoff drains all along the treatment units shall be dismantled and sealed, no such provision for drainage around the treatment units shall be made.

10. CETP, Rooma shall submit the action plan for augmentation of tube setter/clarifier of required capacity and enhancement of HRT of aeration tank.

AND NOW THEREFORE, in view of above mentioned observations and in exercise of powers delegated to the Chairman CPCB, under section 5 of the Environment (Protection) Act, 1986, **show cause notice** for closure is hereby served to CETP, Rooma to explain the reason of non-compliance of effluent discharge standard and operating at higher capacities.

The reply to the show cause notice shall be submitted to CPCB within 15 days from the date of this notice failing which suitable action as deemed fit under Environmental (Protection) Act, 1986 will be initiated without any further notice.


(S. P. SINGH PARIHAR)
CHAIRMAN

Copy to:

- 1 **Member Secretary,** : For information please
U. P. Pollution Control Board
Building No. TC-12V, Vibhuti Khand,
Gomti Nagar, Lucknow-226 010
- 2 **Joint Secretary (CP),** : For information please
Ministry of Environment Forests & CC
Indira Paryavaran Bhawan, Jor Bagh Road,
New Delhi-110 003
- 3 **Regional Director (North)** : For information please
Central Pollution Control Board,
PICUP Bhawan, Vibhuti Khand, Gomti Nagar,
Lucknow, Uttar Pradesh -226 010
- 4 **District Magistrate** : For information please
Kanpur
- 5 **The In-charge, IT Division, CPCB** : for uploading the direction at
CPCB website.
- 6 **Master copy (CETP), WQM-II Division** : For record.


(B. VINOD BABU)
MEMBER SECRETARY

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