



CPCB/IPC-VII/CETP/Karnataka/2019 14869

January 01, 2019

To

M/s Pai & Pai Chemicals (I) Pvt Ltd. - Unit 1,
29/ A, 1st Phase,
Kumbalgeodu Industrial Area
Mysore Road, Bengaluru - 560074

**DIRECTIONS UNDER SECTION-5 OF ENVIRONMENT (PROTECTION) ACT, 1986
- SHOW CAUSE NOTICE THEREOF**

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) or the Pollution Control Committees for Union Territories, 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 streams 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 under the Environment (Protection) Act, 1986 and rules framed there under; and

WHEREAS, it is obligatory on the part of Common Effluent Treatment Plants (CETPs) to comply with the effluent discharge standards as notified under the Environment (Protection) Act, 1986 and the rules framed there under and also to meet the consent conditions granted by the State Pollution Control Boards (SPCBs)/Pollution Control Committees (PCCs); and

WHEREAS, the Regional Directorate, CPCB, Bengaluru, carried out inspection-cum-monitoring of CETP- Pai & Pai Chemicals (I) Pvt Ltd., Unit-I, Bengaluru on July 23, 2018 and made following observations/findings:

- i) The CETP has design capacity to treat 300 KLD trade effluents and presently, it receives 230 KLD (average) effluent from 95 member industries.
- ii) During inspection effluent samples were collected from CETP and analysis results reveal that the CETP does not comply with the stipulated norms of effluent discharge standards w.r.t. parameters, namely, **BOD-150 mg/l** (as against norms of 30 mg/l), **COD- 465 mg/l** (as against norms of 250 mg/l), **TDS- 3392 mg/l** (as against FDS norms of 2100 mg/l), **Fluoride - 33.5 mg/l** (as against norms of 2 mg/l) and **Chloride- 1040 mg/l** (as against norms of 1000 mg/l). Also the MEE condensate is having high TDS of 4168 mg/l which indicates the poor performance of MEE.

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- iii) The effluents received through tankers are unloaded into separate collection tank by flexible hose pipes as per characteristics of effluent. The vehicles transporting the effluents are not provided with any spillage/over flow collection tank. The unloading point at the CETP is not provided with shed, the spillage collection pits (brick lining) provided at the unloading areas are found damaged and during rains the spillage will be washed along with rain water.
- iv) During inspection, The Ultra-Filtration (UF) system was found not working and the same is bypassed and the high TDS effluent is treated through Reverse Osmosis (RO). Also the Agitated Thin Film Dryer (ATFD) is not functioning and the Multiple Effect Evaporator (MEE) residue is sent to Hydrogen Fluoride (HF) raw effluent tank.
- v) As informed, the treated effluents (RO permeate, MEE condensate and treated effluent having <2100 TDS) are collected in a final collection tank and used for gardening, boiler feed, and excess disposed to private agricultural farm, however, no record are maintained.
- vi) The dewatered sludge from the filter press and ATFD salts are stored outside in the open shed, about a 1 km away from the CETP premises for disposal to TSDF. The Hazardous waste is stored in unscientific way, in open space without having concrete floor & collection pit.
- vii) The CETP informed that about 5% of their member units have provided pre-treatment system.
- viii) The CETP has not installed flow meters to assess the raw effluent received (acid, alkali, HF, Chromium), cumulative flow record for MEE feed & condensate recovery and treated water (outlet) disposed to gardening, recycling and private farms.
- ix) The CETP has three number of D.G. sets, whereas consent is given only for 2 nos. of D.G. sets. These D.G. sets are not provided with acoustic enclosure, placed inside the room and doors/windows are kept open.
- x) Refuse Derived Fuel (RDF) is used as fuel in the boiler and the boiler is provided with cyclone dust collector and chimney. The port hole is not provided as per the emission regulations.
- xi) The CETP has not implemented any rainwater harvesting system.

WHEREAS, the Ministry of Environment, Forest & Climate Change, Govt. of India, vide notification S.O. 157 (E) of 27.02.1996 has delegated powers vested under Section-5 of Environment (Protection) Act, 1986 to the Chairman, Central Pollution Control Board (CPCB), to issue direction to any industry or any local body or any other Authority for violations of emission and effluent standards and rules notified under the Environment (Protection) Rules, 1986 and amendment thereof; and


AND NOW, THEREFORE, in view of the above observations and exercising powers delegated to the Chairman, Central Pollution Control Board under section-5 of the Environment (Protection) Act, 1986, notice is hereby served to the operator of CETP to **show cause why Environmental Compensation (EC) should not be levied for non-compliance as aforesaid. Besides, the following directions are required for compliance.**

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- i) The CETP should be properly operated and adequately up-graded in order to ensure to meet the discharge norms prescribed by KSPCB. In case of violation, Environmental Compensation should be levied and the CETP operator may also be prosecuted in accordance with the provisions of the Environment (Protection) Act, 1986 and amendments thereof.
- ii) The CETP should provide spillage/overflow collection tank for the vehicles/tankers transporting effluent to avoid spillage on roads. Also the tanker outlet valve shall be provided with additional cap fittings to prevent leakages if any due to accidental valve openings. The CETP should also provide shed to the vehicle unloading area and also to repair the spillage collection pits (brick lined) to avoid runoff during rains.
- iii) The CETP should develop proper and adequate hazardous waste storage shed with proper spillage collection pits for the storage of used oils, waste oils, ETP sludge, chemical drum etc. within the CETP premises.
- iv) The CETP should ensure that the member industries provide the pre-treatment system and discharge the trade effluent meeting the inlet norms of CETP. In case of non-compliance, the list of such industrial units should be provided to KSPCB for necessary action against such units.
- v) The CETP should install electromagnetic flow meters at appropriate places at inlet and outlet, and to maintain the log books on daily basis.
- vi) The CETP should relocate the porthole in the boiler stack compliance to the emission regulations for carrying out emission monitoring.
- vii) The CETP should ensure all the loose pipelines are replaced with permanent pipe lines. The CETP should also improve the operation/recovery efficiency of MEE and RO to improve the quality of MEE condensate and RO permeate w.r.t. TDS.
- viii) The CETP should implement the rainwater harvesting system and recycling of the same.

The action taken report, along with time bound action plan for the compliance of the directions, shall be submitted to CPCB within 30 days from date of receipt of these directions. The CETP shall also acknowledge the receipt of these directions.

In the event of failure to comply with the above directions within the stipulated timeframe, appropriate action would be initiated against the CETP in accordance with the provisions of the Environment (Protection) Act, 1986 and amendments thereof, and CETP may also be levied Environmental Compensation as per the Environmental Compensation policy framed in compliance of Hon'ble NGT order dated 31/8/2018 in the matter of O.A. No. 593/2017 [WP (CIVIL) No. 375/2012, Prayavaran Surakshya Samiti and Anr. V/s Union of India & Ors.] without any further notice.


(S.P. Singh Parihar)
Chairman

Copy to:

1. **The Advisor (CP Division)** : For information, please.
Ministry of Environment,
Forests & Climate Change,
Indra Paryavaran Bhavan,
Jor Bagh Road,
New Delhi - 110 003
2. **The Member Secretary,** : For follow-up with the CETP
Karnataka State Pollution Control Board to ensure compliance of the
4th & 5th Floor, Parisara Bhawan, directions.
No. 49, Church Street,
Bengaluru - 560 001,
Karnataka
3. **The Regional Directorate (South),** : For follow-up with the CETP
Central Pollution Control Board to ensure compliance of the
1st & 2nd Floors, Nisarga Bhavan, directions.
A-Block, Thimmaiah Main Road,
7th D Cross, Shivanagar,
(Opp. Pushpanjali Theatre)
Bengaluru-560 010 (Karnataka)
4. **The Div. Head IPC-VI,** : For information.
CPCB, Delhi
5. **The Div. Head IT,** : For uploading on CPCB
CPCB, Delhi website.


(Prashant Gargava)
Member Secretary