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December 19, 2017

To

M/s ITC Ltd., Paper Boards & Speciality Paper Division
Unit-Bhadrachalam., Village-Sarapaka (P.O),
Bhadradri Bhadrachalam, Telangana - 507 128

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

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 the rules framed there under; and

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 the Environment (Protection) Act, 1986 (29 of 1986) to the Chairman, Central Pollution Control Board (CPCB), to issue direction to any industry, Municipal Corporation, Municipal Council, Cantonment Board, to any local or other Authority for the violation of emission and effluent standards notified under the Environment (Protection) Rules, 1986 and other standards and norms; and

WHEREAS, M/s ITC Ltd., Village-Sarapaka, Bhadrachalam, Telangana (*hereafter referred to as 'the Unit'*) is an integrated pulp & paper mill with an installed capacity of manufacturing 7, 40,000 TPA paper & paper board using Hard wood, Bamboo, wastepaper and pulp as raw material; and

WHEREAS, the Unit was inspected by a joint team of officials from CPCB and Telangana SPCB on April 04, 2017 to verify the compliance status and following observations were made:

1. The Unit has EC & Consent to establish for the new BCTMP plant which is under installation.
2. The Unit has Consent under Water, Air, & HW Rules & valid upto 30.11.2020.
3. The freshwater consumption is 41.5 m³/ton of paper production.
4. The final combined ETP (paper mill-ETP1+ pulp mill-ETP2) treated effluent shows pH-7.6 (*against norms-7.0-8.5*), TSS-14 mg/l (*against norms of 50 mg/l*), BOD-33 mg/l (*against norms of 30 mg/l*), COD-213 mg/l (*against norms of 250 mg/l*), TDS-1922 mg/l (*norms-2100 mg/l*) and AOX-0.01 kg/Ton of production (*norms-1.0 kg/ton*). The Unit found non-complying with the BOD discharge norms.
5. The performance of the ETP-2 for pulp mill effluent (brown stream) needs to be improved as the final outlet BOD was 40 mg/l however after mixing with ETP-1 treated effluent, BOD was 33 mg/l (final discharge).
6. The Unit discharges its treated effluent directly into the Godavari river through a closed pipeline (6-7 km) and a lagoon was found near discharge point at Godavari River bank and lagoon onward meets/mixes with Godavari River.
7. Sample analysis of the lagoon water shows pH-7.6, TSS-4.0 mg/l, BOD-33 mg/l, COD-210 mg/l, SAR-8.5, TDS-1382 mg/l; Na-328 mg/l, Sulphate-582 mg/l, Cl- -137 mg/l, Na %-67.7.

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8. Godavari River (Downstream; 1km from mixing point) water sample analysis showed pH-8.4, TSS-02 mg/l; COD-15 mg/l; TDS-304 mg/l; Cl⁻ -26.4 mg/l; Sulphate-57 mg/l; CaCO₃-119 mg/l; Na-50 mg/l; K- 06 mg/l; Nitrate 0.32 mg/l; SAR-2.0 mg/l.
9. The ambient air quality monitoring conducted within the premises shows PM₁₀ as 84.4 µg/m³ (*against norms of 100 µg/m³*) indicating compliance with the prescribed norms.

AND WHEREAS, CPCB issued direction vide letter dated 24.04.2017 under section 5 of Environment (Protection) Act, 1986 to **M/s ITC Ltd., Unit-Bhadrachalam, Telangana** for compliance with the following:

1. The Unit shall improve and optimize the performance of ETPs especially ETP-2 (pulp mill effluent) so as to meet the prescribed effluent discharge norms and ensure no effluent should be discharged without conforming with the prescribed discharge norms.
2. The Unit shall submit ETP adequacy assessment report prepared by expert institute like IITs/CPPRI/NEERI to CPCB within 30 days & to implement the suggested improvement in the ETP so as to comply with the effluent discharge norms at consented production capacity.
3. The Unit shall install flow meter at the inlet of both ETPs within 30 days & maintain logbook for the same.
4. The Unit shall install tertiary treatment system at the ETP before final discharge within 30 days.
5. The Unit shall provide a visible open final discharge point at ETP ensuring the safety issue within 30 days and from where sampling can be done.

AND WHEREAS, the Unit replied vide their letter dated 12.05.2017 and 17.06.2017 which was examined; and

WHEREAS, the Unit was inspected by CPCB team on October 24-27, 2017 to verify the compliance status and following observations were made:

1. The final combined ETP (ETP1+ETP2) treated effluent analysis (composite sampling) shows pH-7.3(*against norms-7.0-8.5*), TSS-26 mg/l (*against-50 mg/l*), BOD-13 mg/l (*against-30 mg/l*), COD-128 mg/l (*against -250 mg/l*), TDS-1006 mg/l and AOX- 0.004 kg/Ton of production (*norms-1.0 kg/ton*) and %Na-63 (*norms-60*). The Unit is complying with the prescribed discharge norms for all parameters except percent sodium.
2. At the discharge point of the river a grab sample was collected and analysis result showed compliance with the effluent discharge norms except %Na with 62 *against norms of 60*.
3. Godavari River (Upstream w.r.t Unit discharge point) water sample analysis showed pH-7.7, TSS-02 mg/l; COD-3.1 mg/l; TDS-164 mg/l; Cl⁻-9.6 mg/l; Mg-6.7 mg/l, Sulphate-22 mg/l; CaCO₃-100 mg/l; Na-14.3 mg/l; K-2.3 mg/l; TKN-5.0 mg/l; Ammonia as N-3.9 mg/l.
4. Godavari River (Downstream) water sample analysis showed pH-7.5, TSS-22 mg/l; COD-1.1 mg/l; TDS-144 mg/l; Cl⁻-9.6 mg/l; Mg-4.8 mg/l; Sulphate-20 mg/l; CaCO₃-96 mg/l; Na-12.5 mg/l; TKN-2.8 mg/l; K-2.6 mg/l; Ammonia as N-1.7 mg/l.

5. The stack attached with 300 TPD lime Kiln-3 was found exceeding the limit prescribed for particulate matter (PM) and PM is reported as 205 mg/Nm³ against the prescribed norms of 50 mg/Nm³ which is violation of the standards prescribed by Telangana SPCB.
6. The hazardous waste is stored in scrap yard along with other wastes in an open area and require to be stored in separate shed & maintain it as per the HW Rules.
7. The port holes provided in the large diameter stacks are not as per the guidelines of Emission Regulation Part - III of CPCB.
8. The Unit requires to provide water sprinkling arrangement on coal heaps stored in open area temporarily and ensure necessary action at all possible sources to avoid fugitive emission.
9. As per the adequacy assessment report, following work are under progress by the Unit:
 - (i) Installation of 2 high capacity blowers are expected to commence in December 2017 and completed by April, 2018.
 - (ii) Installation of new diffuser system will be started in January 2018 and completed by April 2018.
 - (iii) Pure oxygen injection system in aeration tank will start in December 2017 and completed by March 2018.
10. The Unit requires to provide qualified and trained manpower in the laboratory and for ambient & source monitoring etc.

The Unit was found non-complying in Lime Kiln-3 with the emission standard prescribed by Telangana SPCB and also found non-complying w.r.t percent Na in treated final effluent. The Unit also requires to comply with the aforementioned recommendation of the inspection team.

NOW, THEREFORE, in view of the above observations and in exercise of the powers delegated to the Chairman, CPCB under section 5 of the Environment (Protection) Act, 1986, **notice is served herewith to show cause why M/s ITC Ltd., Unit-Bhadrachalam, Telangana should not be closed down** until all the necessary pollution control measures are planned and implemented so as to comply with the prescribed effluent discharge and emission standards to the satisfaction of CPCB.

You are hereby given an opportunity to file your objections (if any) to the above proposed directions within 15 days from the receipt of this notice, failing which it will be presumed that you have nothing to say and appropriate action, in accordance with the provisions of the Environment (Protection) Act, 1986, will be taken against the Unit without giving any further notice.


(S.P. SINGH PARIHAR)
CHAIRMAN

Copy to:

1. **The Member Secretary** : For information pl.
Telangana State Pollution Control Board,
Paryavaran Bhavan, A-3, Industrial Estate,
Sanathnagar, Hyderabad, - 500 018

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2. **The Regional Director,**
Regional Directorate (Bangaluru), : For information pl.
Central Pollution Control Board,
1st and 2nd Floors, "NISARGA BHAVANA",
Thimmaiah Main Road, 7th 'D' Cross,
Opp. Pushpanjali Theatre, Shivanagar,
Bangaluru - 560 010
3. **The Director (CP Division)** : For information pl.
Ministry of Environment, Forest and
Climate Change, Indra Paryavaran Bhavan,
Jor Bagh Road, New Delhi - 110 003
- ✓ 4. Divisional Head, IT Division, CPCB, Delhi : To upload the direction at CPCB website
5. Master File, IPC-III Division, CPCB, Delhi


(A. SUDHAKAR)
MEMBER SECRETARY