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CP-11/24/2023-IPC-III-HO-CPCB-HO

October.13, 2023

To,

M/s Sentini Bioproducts (P) Ltd.,
Gandepalli Village, Kanchikacherla Mandal,
Krishna District - 521 185,
Andhra Pradesh

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

WHEREAS, Distilleries are identified as one of the 17 categories of highly polluting industries which have been discharging environmental pollutants directly or indirectly into the ambient air and water, having potential threat to cause adverse effect on the water and air quality; and

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

WHEREAS, it is obligatory on the part of industries to install effluent treatment plants (ETPs) and air pollution control devices (APCDs) to comply with the effluent discharge and emission standards as notified under the Environment (Protection) Act, 1986 and the Rules framed there under and also to meet the consent conditions granted by State Pollution Control Board (SPCBs)/ Pollution Control Committees (PCCs); and

WHEREAS, Central Pollution Control Board (CPCB) carried out the inspection of M/s Sentini Bioproducts (P) Ltd., Distillery Unit (hereafter referred to as 'the Unit'), Gandepalli Village, Kanchikacherla Mandal, Krishna District, AP on 12.05.2023 under the programme w.r.t SMS alerts/offline status of Online Continuous Effluent/Emission Monitoring System (OCEMS). The major observations made by the inspection team during the visit are as follows:

1. During the visit, the Unit was operational at full production capacity of 200 KLD of Rectified spirit/ENA. The Unit has obtained combined Consent to Operate (CTO) & Hazardous Waste Authorization by APPCB which is valid up to January 31, 2027 for 150KLD and January 31, 2026 for 50KLD.
2. The Unit had expanded from 150KLD of rectified/ENA to 200KLD in September, 2020 by obtaining EC from SEIAA, AP. Hence, APPCB has given two CTOs for 150KLD and 50KLD separately.
3. The Unit is engaged in manufacturing of rectified spirit/ENA of 200KLD capacity from grains such as maize, Jowar, broken rice/boiled rice, Bajra etc.
4. The spent-wash generated from the process is treated in Decanter, MEE, and Dryer. The Unit has 05 no's decanter of capacity 20m³/hr. The DDGS generated from the Dryer is sold as cattle/poultry feed.
5. The house keeping in the MEE section was poor and the garland drains were filled with water.
6. The wastewater generated from the cooling tower blow-down, boiler blow-down, spent lees from the distillation section and DM process waste water is taken to effluent treatment plant (ETP) of capacity 1000KLD. The ETP consists of collection tank, equalization tank, two aeration tanks, clarifier & tube settler and sludge drying beds. The treated effluent is utilized for cooling tower make up and for development of green belt around the Unit.

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7. The Unit is in the process of constructing sewage treatment plant.
8. During the visit, the effluent samples from the inlet & outlet of ETP was collected by the team and analyzed in the APPCB laboratory. As per the results, the treated effluent is meeting the standard prescribed by APPCB except for TDS parameter (i.e. **TDS-3238** mg/l against 2100 mg/l).
9. During inspection, the manual sampling was carried and emission sample was analyzed at APPCB laboratory, Vijayawada. The lab analysis result showed the concentration of PM is meeting the emission standard prescribed by APPCB.
10. The Unit has installed online continuous emission monitoring system (OCEMS) in the stack attached to 42TPH boiler to monitor PM emissions. The Unit has installed the flow-meters, webcam at the inlet & outlet of ETP and multi parameter analyzer for monitoring pH, TSS, BOD & COD at the outlet of ETP. The Unit has connected the OCEMS data to CPCB server.
11. The Unit has installed electromagnetic flow-meters and webcam at the inlet and outlet of the ETP.
12. The make and model of the flow-meter installed at the outlet of ETP provided in the RTDMS portal was cross verified and was correct. However, for the inlet flow-meter the details were not verified as it was not showing in the portal.
13. The Unit has installed Multi parameter analyzer of Forbes Marshall Make for pH, BOD, COD & TSS at the outlet of ETP. However, during inspection, the online analyzer was not in place. It was informed that in the month of February 2023, due to sensor issue, the analyzer has been taken to instrument supplier company to replace the sensor.
14. The prescribed standard for BOD and COD is not provided in the RTDMS portal.
15. The average mean of online data for PM is 49.3 mg/Nm³ and the manual monitoring result for PM parameter is 72.6 mg/Nm³.
16. The Unit has to ensure that the OCEMS instruments be calibrated once in six months and the online data is par with manual monitoring value.
17. APPCB has prescribed standard for PM parameter in the consent conditions as 100 mg/Nm³, however in the RTDMS portal it is set/displayed as 150 mg/Nm³.
18. The make, model and Serial no. of the opacity meter is not provided in the RTDMS portal, hence the same could not be verified.

WHEREAS, it is evident that the Unit is violating the norms/consent order issued by APPCB with respect to effluent norms for TDS (TDS (3238 mg/l against 2100 mg/l) parameter. The OCEMS analyzer was found not in place during the visit and Unit also require to ensure storage of waste oil as per the Hazardous and other Waste Rules, 2016 etc.

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

NOW, THEREFORE, in view of the above and in exercise of the powers delegated to the Chairman, CPCB under section 5 of the Environment (Protection) Act, 1986, the following directions are issued to **M/s Sentini Bioproducts (P) Ltd.**, Krishna District, Andhra Pradesh for compliance:

1. The Unit shall immediately optimize/augment the performance of ETP ensuring that the treated effluent meets the prescribed effluent standard of APPCB.
2. The Unit shall expedite the construction of STP to treat the domestic wastewater separately rather than mixing with effluent.

3. The Unit shall ensure that the waste oil is stored in the Unit premises as per the Rule 8 of the Hazardous and Other Wastes (Management and Transboundary Movement) Rule, 2016.
4. The Unit shall ensure that the multi parameter analyzer is repaired quickly and installed at the outlet of ETP and the data be transferred to CPCB server within a week.
5. The Unit shall ensure that analyzers are calibrated as per the calibration protocol of the instrument to record the actual data.
6. The Unit shall upload the details of opacity meter i.e. make, model and serial no. of the analyzer in the portal.
7. The Unit shall change the prescribed standard for PM from 150 mg/Nm³ to 100 mg/Nm³ in the RTDMS portal as per consent condition.
8. The Unit shall ensure good housekeeping in MEE section and in the process area at all times.
9. The Unit shall submit duly notarized point wise reply along with measures taken in compliance to all points mentioned in the above said directions.

In case of default in compliance with the above directions, CPCB will be constrained to initiate appropriate actions against the Unit, without giving any further notice, in accordance with provisions of the Environment (Protection) Act, 1986.


(TANMAY KUMAR)
CHAIRMAN

Copy to:

1. **The Member Secretary,**
Andhra Pradesh Pollution Control Board,
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action, please.
2. **The Director, (CP Division),**
Ministry of Environment, Forests & CC
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: For information, please.
3. **The Regional Director,**
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4. ✓ The Div. Head, IT Division, CPCB Delhi
: To upload the direction at CPCB we
bsite


(BHARAT KUMAR SHARMA)
MEMBER SECRETARY