



SPEED POST

CP-14/28/2023-IPC-III-HO-CPCB-HO | 7539

December 15, 2023

To,

M/s Crux Biotech India Private Limited,
(Grain Based Distillery),
S. Nos 529,530,531, 532, 536, 557, 560, 564,
Peddavaram, Nandigama Mandal,
Krishna District, Andhra Pradesh-521185

**SHOW CAUSE NOTICE UNDER SECTION 5 OF THE ENVIRONMENT
(PROTECTION) ACT, 1986**

WHEREAS, the 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 carried out the inspection of **M/s Crux Biotech India Private Limited**, (Grain Based Distillery), Krishna District, Andhra Pradesh (hereafter referred to as 'the Unit') on 26/06/2023 under 'Environmental surveillance of 17 categories of highly potential industries and common facilities' based on real-time OCEMS (online continuous effluent monitoring system) data programme. The major observations made by the inspection team during the visit are as follows:

1. M/s Crux Biotech India Pvt Ltd. at Krishna District, Andhra Pradesh is a Grain Based Distillery involved in manufacturing Extra Neutral Alcohol (ENA) using grains. During the inspection, the Unit was operational.
2. The combined consent for operation and Authorization under the Water and Air Acts and the Hazardous Waste Management Rules issued to the industry by Andhra Pradesh Pollution Control Board is valid up to 31/01/2026.
3. The Unit has installed 260 KLD capacity multiple effect evaporator (MEE) for treatment of thin slop and 250 KLD capacity ETP for treatment of wastewater generated. The industry has implemented Zero Liquid Discharge through recycle of treated effluent.
4. The DWGS and MEE concentrate are dried and Distillers Dry Grain Soluble (DDGS) are generated consisting 88 - 90 % solids are sold as cattle feed.

‘परिवेश भवन’ पर्वी अर्जुन नगर, दिल्ली-110032

Parivesh Bhawan, East Arjun Nagar, Delhi-110032

दूरभाष/Tel : 43102030, 22305792, वेबसाइट/Website : www.cpcb.nic.in

5. The inspection team has collected the samples from RO permeate and lab analysis report indicates that RO permeate is complying with the effluent discharge standards prescribed by APPCB.
6. The comparison of readings at OCEMS instrument and flow meter installed at RO Permeate on 26.06.2023, 16:21 hr with the corresponding 15 min average data recorded in the CPCB portal shows that the OCEMS data recorded in the portal are not the actual values (concentration and flow) recorded in the OCEMS instrument and flow meter.
7. Flow meter, PTZ camera and OCEMS for monitoring pH, BOD, COD and TSS are installed at RO permeate and connected to CPCB portal. Analysis of 15-minute average data of June and July, 2023 shows that only 3.87% of the flow meter data, 3.91% of pH and 1.18% of TSS, and 0% of BOD and COD data are recorded in the CPCB portal. This indicates OCEMS data is not connected to CPCB portal properly.
8. Twenty-Five (25) TPH boiler is provided with bag filter for control of PM emissions. The source emission monitoring result shows that PM concentration in stack attached to the boiler was 825 mg/Nm³ and it is 16.5 times higher than the emission standards prescribed by APPCB in the consent for operation. The corresponding value recorded in OCEMS data during 2:30 PM to 4:00 PM is 200.5 mg/Nm³ and it is 4.12 times less than the actual value.
9. Analysis of OCEMS data of June and July, 2023 shows that average value recorded in the portal are 39.6 mg/Nm³ and 30.8 mg/Nm³ with minimum 0 and maximum 45.2 mg/Nm³. Only during inspection and stack monitoring, value recorded in 200.5 mg/Nm³ constantly. This indicates OCEMS sensor for PM are not functioning and calibrated properly or tampered. The sensor is set to record measured concentration as less than the standard limits and the data is not reliable. The standard limit for PM is set as 150 mg/Nm³ instead of 50 mg/Nm³ in RTDMS portal as prescribed in Consent for operation.

WHEREAS, it is evident that the Unit is non-complying w.r.t. PM concentration in stack attached to the boiler (PM-825 mg/Nm³ against 50 mg/Nm³) which is 16.5 times higher than the emission standards prescribed by APPCB; OCEMS sensor for PM are not functioning & calibrated properly or tampered; OCEMS data is not connected to CPCB portal properly and OCEMS data recorded in the portal are not the actual values (concentration and flow) recorded in the OCEMS instrument & flow meter; 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

NOW, therefore, in view of the observations, as described above and exercising the powers delegated to the Chairman, Central Pollution Control Board (CPCB) under section 5 of the Environment (Protection) Act, 1986, notice is hereby served to the Unit [**M/s Crux Biotech India Pvt. Ltd. (Grain Based Distillery)**], Krishna District, Andhra Pradesh], to show cause why all the manufacturing operations of the Unit should not be closed down till it complies with the following:

1. The Unit shall upgrade/augment the existing air pollution control devices (APCDs) attached to the 25 TPH boiler so as to meet the source emission (Particulate Matter) standard limits prescribed in Consent to Operate issued by APPCB. The same be upgraded/augmented

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- immediately and thereafter stack emission monitoring results from EPA recognized lab be submitted to SPCB and CPCB.
2. The Unit shall ensure that data transmitted to CPCB portal from PM analyzers installed at stack are correct and the unit should rectify the issue regarding transmission of actual data to CPCB portal without tampering.
 3. The Unit shall ensure periodic calibration of the analysers as per Standard Operating Procedure/recommendations of the supplier and submit the calibration results.
 4. The Unit shall ensure data transmitted to CPCB portal from pH, TSS, COD and BOD sensors installed at RO permeate are correct and all the data is transmitted to the portal.
 5. To Unit shall rectify the standard limits set in the RTDMS portal for PM emission as per the standard prescribed in Consent to Operate.

You are hereby given an opportunity to file your objections (if any) duly notarized to the above proposed direction 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.


 15/12/23
(TANMAY KUMAR)
CHAIRMAN

Copy to:

1. **The Member Secretary,**
Andhra Pradesh Pollution Control Board,
D.No. 33-26-14 D/2, Near Sunrise
Hospital, Pushpa Hotel Centre,
Chalamalavari Street, Kasturibaipet,
Vijayawada, Andhra Pradesh-520010
For information & ensuring
compliance of direction
including the effluent
standard prescribed (such as
TSS-200 mg/l) in Consent to
Operate may be examined and
accordingly be amended.
2. **The Director, (CP Division),**
Ministry of Environment, Forests & CC
Prithvi Block, Indira Paryavaran Bhawan,
Jorbagh Road, New Delhi - 110003
For information please
3. **The Regional Director,**
Central Pollution Control Board,
Regional Directorate- Chennai
Second Floor, No.77-A, South Avenue
Road, Ambattur Industrial Estate,
Ambattur Taluk, Thiruvallur District,
Chennai, Tamil Nadu - 600058
For follow-up and ensuring
compliance please
4. **The District Magistrate**
First Floor, Collectorate,
Tiruvallur - 602001
For information please
5. ✓ The Div. Head, IT Division, CPCB Delhi
For uploading in the website
please


(BHARAT KUMAR SHARMA)
MEMBER SECRETARY