



SPEED POST

CP-14/25/2024-IPC-III-HO-CPCB-HO 2657

July 01, 2024

To

The Member Secretary,
Karnataka State Pollution Control Board,
"Parisara Bhavan" 4th, 5th Floors,
49, Church Street, Bengaluru-560 001,
Karnataka

Directions under section 18(1) (b) of the Water (Prevention & Control of Pollution) Act, 1974 & the Air (Prevention & Control of Pollution) Act, 1981 in the matter of M/s Chidanand Basaprabhu Kore Sahakari Sakkare Karkhane Niyamit (Formerly Known as M/s Doodhaganga Sahakari Sakkare Karkane Niyamit), Chikkodi, Belagavi, Karnataka-reg.

WHEREAS, under section 16 of the Water (Prevention & Control of Pollution) Act, 1974 and under Section 16 of the Air (Prevention & Control of Pollution) Act, 1981, one of the functions of the Central Pollution Control Board (CPCB), constituted under Water (Prevention & Control of Pollution) Act, 1974 is to coordinate activities of the State Pollution Control Boards and Pollution Control Committees and to provide technical assistance and guidance to SPCBs/PCCs; and

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

WHEREAS, CPCB and SPCBs have been pursuing the polluting industries to install effluent treatment plants (ETPs) to comply with the effluent discharge standards as notified under the Environment (Protection) Act, 1986 and the Rules framed there under; and

WHEREAS, the SPCBs/PCCs can stipulate stringent standards for discharge of environmental pollution from various categories of industries than those notified by the Central Government, under the Environment (Protection) Act, 1986 and Rules framed there under; and

WHEREAS, a team of CPCB officials inspected **M/s Chidanand Basaprabhu Kore Sahakari Sakkare Karkhane Niyamit** (Formerly Known as M/s Doodhaganga Sahakari Sakkare Karkane Niyamit) (*hereafter referred to as 'the Unit'*) Chikkodi, Belagavi, Karnataka on 07.02.2024 to verify the compliance status under "Environmental Surveillance of 17 category of high pollution potential industries and common facilities, based on Online Continuous Emission Monitoring System (OCEMS) alert programme". The major observations made by the inspecting team during the visit are as follows:

‘परिवेश भवन’ पूर्वी अर्जुन नगर, दिल्ली-110032

Parivesh Bhawan, East Arjun Nagar, New Delhi - 110032

दूरभाष/Tel: 43102030, 22305792, वेबसाइट/Website : www.cpbc.nic.in Pg 1

1. The Unit is engaged in the manufacturing of Ethanol since 2002 using molasses as raw material. During the inspection, the Unit was operational.
2. The Unit has changed its name from M/s Shree Doodhaganga Krishna Sahakari Sakkare Karkhane Niyamit to "M/s Chidanand Basavaprabhu Kore Sahakari Sakkare Karkhane Niyamit" on 12th June, 2017. Same was informed by the Unit to Karnataka Pollution Control Board vide letter dated 18th November, 2019 and to Ministry of Environment, Forest and Climate Change (MoEF&CC) vide letter dated 8th February, 2021 with a copy to MS, CPCB for information and record.
3. The Unit has valid consent under Water and Air Act having validity up to 30.06.2026. The Hazardous Waste Authorization obtained by the Unit was expired on 30.06.2023 and the Unit has applied for renewal on 15.03.2023.
4. As per the last three years' records, it was observed that the Unit has produced **33.88 KLD Ethanol against the consented capacity of 30 KLD.**
5. The Unit has not provided any Bio-digester or Multi Effect Evaporator (MEE) for concentration of generated spent-wash.
6. The spent-wash generated is stored in 5-days settling tank with the capacity of 1200 m³. After 5-days the spent-wash is pumped into the spent-wash storage lagoon of 7500 m³ capacity and finally disposed to Bio-compost yard and hence achieving Zero Liquid Discharge
7. The 88 KLD of spent lees generated is sent to spent wash storage lagoon and finally disposed to Bio-compost yard to make compost, which is violation of consent condition.
8. The Unit is generating 9KL of spent wash per KL of Ethanol production, however as per consent to operate (CTO) the max generation of Spent wash should be 8KL/KL of Ethanol production.
10. The Unit has provided 6 acres for bio-composting with concrete flooring. The Unit has also provided additional 8 acres for storage of press mud & compost in which concrete flooring is not provided.
11. No proper garland system was provided for collection of leachate. The leachate collection tank was overflowing and submerged.
12. Bio-composting is done in unscientific manner without following the guidelines/SOP of CPCB. The spillage of spent-wash was seen everywhere. One piezometer well provided at compost yard. There is no cover shed provided at the compost yard in order protect from runoff in case of rainfall.
13. The emission monitoring was carried out at the 15 TPH boiler and particulate matter (PM) result was 123.3 mg/ Nm³ (against 150 mg/ Nm³).
14. As per Environmental Clearance (expansion from 30 KLD to 300 KLD) granted by Ministry of Environment, Forest and Climate Change (MoEF&CC) dated 06.12.2022, the spent-wash generated will be concentrated in Multi Effect Evaporator (MEE) and concentrated spent-wash will be burnt in 60

Dir. section 18(1) (b) of the Water (Prevention & Control of Pollution) Act, 1974 & the Air (Prevention & Control of Pollution) Act.

TPH incineration boiler, which was under construction at the time of inspection.

15. As per the Environmental Clearance dated 06.12.2022, condensate, spent lees and utility effluent shall be treated in the Effluent Treatment Plant (ETP) comprising tertiary treatment (condensate polishing Unit) and treated effluent will be recycled /reused for make up water cooling towers/process etc. and no waste or treated water shall be discharged outside the premises. Sewage Treatment Plant (STP) shall be installed to treat the sewage generated from factory premises.
16. Housekeeping was poor at boiler area, fly ash storage yard and compost yard area.
17. The bagasse storage yard and fly ash storage yard is not provided with covered shed.

WHEREAS, it is evident from the above observations made by the inspection team that the Unit was found non-complying w.r.t over production than the consented capacity (33.44 KLD against 30 KLD), non-installation of display board at the entry gate, non-installation of flow-meter at the bio-compost yard, unscientific bio-composting, no garland drain for leachate collection, no covered shed for bagasse & fly-ash storage etc.; and

NOW, therefore, in exercise of the powers conferred under Section 18(1) (b) of the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention & Control of Pollution) Act, 1981; the Karnataka State Pollution Control Board (KSPCB) is hereby directed to take appropriate action against the Unit [M/s Chidanand Basaprabhu Kore Sahakari Sakkare Karkhane Niyamit, Chikodi, Belagavi, Karnataka] for violation of consent condition and shall ensure compliance of the following:

1. The Unit shall ensure that the production of alcohol shall be within the permitted consented capacity.
2. The Unit shall dispose off the stored spent-wash in the existing impervious Bio-compost yard as per the guidelines/SOP of Central Pollution Control Board (CPCB) and shall ensure no groundwater contamination. Necessary records w.r.t. quantity disposed, method of disposal of spent-wash, etc. be maintained and verified by State Pollution Control Board (SPCB).
3. The Unit shall treat the spent lees in the Condensate Polishing Unit (CPU) and use the treated effluent in process for molasses dilution as per Consent to Operate (CTO).
4. The max. spent-wash generation shall be limited to 8KL/KL of Ethanol production.
5. The Unit shall install environmental data display board at the entry gate.
6. The Unit shall install flow-meter at the compost yard to quantify the usage of spent-wash for bio-composting purpose and maintain the logbook.

Dir. section 18(1) (b) of the Water (Prevention & Control of Pollution) Act, 1974 & the Air (Prevention & Control of Pollution) Act.

7. The Unit shall provide garland drain for leachate collection.
8. The Unit shall provide covered shed for bagasse and fly ash storage.
9. The Unit shall regularly calibrate the installed Online Continuous Emission Monitoring System (OCEMS) devices (for flow and PM parameter).
10. The Unit shall rectify the issue of opacity meter installed for PM measurement in the stack (attached to 15 TPH boiler) and ensure that data is transferred to the Central Pollution Control Board (CPCB) server.
11. The Unit shall install at least three no. of piezometers (one at upstream and two at downstream of groundwater flow direction) along the periphery of the bio-compost yard.
12. The Unit shall carryout groundwater monitoring in & around the bio-compost yard and submit the report to Karnataka State Pollution Control Board (KSPCB).
13. The Unit shall improve Housekeeping at boiler area, fly ash storage yard and compost yard area.
14. Karnataka State Pollution Control Board (KSPCB) shall ensure that the production of the Unit is within the consented capacity and the Unit shall follow CPCB guidelines/SOP for the bio-composting activity.
15. Karnataka State Pollution Control Board (KSPCB) shall incorporate the condition in consent order w.r.t. installation of the required treatment system for effluent management including Digester and/or Multi Effect Evaporator (MEE) to use the spent wash for Bio composting.
16. Karnataka State Pollution Control Board (KSPCB) shall also ensure that the Unit do not operates without installation of all the required treatment system for effluent management including Digester and/or Multi Effect Evaporator (MEE) to use the spent-wash for Bio composting in the Unit so as to achieve the desired compost quality.

The action taken report shall be sent by KSPCB to the CPCB within 30 days from the date of receipt of these directions. KSPCB shall also acknowledge the receipt of these directions to CPCB within 15 days from the date of the receipt.



(BHARAT KUMAR SHARMA)
MEMBER SECRETARY

Copy to:

1. The Chairman, : For information please.
Karnataka State Pollution Control
Board, "Parisara Bhavan" 4th, 5th
Floors, 49, Church Street,
Bengaluru-560 001, Karnataka

Dir. section 18(1) (b) of the Water (Prevention & Control of Pollution) Act, 1974 & the Air (Prevention & Control of Pollution) Act.



2. The Director, (CP Division),
Ministry of Environment, Forests &
CC, Prithvi Block, Indira Paryavaran
Bhawan, Jorbagh Road, New Delhi –
110 003 : For information please.
3. The Regional Director,
CPCB Regional Directorate,
Bengaluru, A-Block, Nisarga
Bhavan, 1st and 2nd Floors, 7th D
Cross, Thimmaiah Road,
Shivanagar, Bengaluru-560079 : For information &
follow up please.
4. ✓ The Divisional Head, IT, CPCB Delhi : For uploading in CPCB
website please.
5. The Divisional Head, IPC-VI, CPCB
Delhi : For record and
necessary action
please.



(BHARAT KUMAR SHARMA)
MEMBER SECRETARY