

Speed Post

B-190198/WQM-II(RG)/CPCB/Sugar/41/2016-17 *W M G*

April 13th, 2018
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To,

**M/s The Kisan Sahkari Chini Mill Ltd.
Tilhar, Shahjahanpur,
Uttar Pradesh-242307**

**DIRECTION UNDER SECTION 5 OF THE ENVIRONMENT (PROTECTION) ACT, 1986-
CLOSURE NOTICE THEREOF**

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 & Forests, 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

WHEREAS, it is obligatory on the part of 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 thereunder and also to meet the consent conditions granted by State Pollution Control Board (SPCBs) / Pollution Control Committees (PCCs); and

WHEREAS, M/s Kisan Sahkari Chini Mill Ltd., Tilhar, Shahjahanpur, U.P. (hereinafter referred as 'the Unit') is involved in the process of sugar manufacturing from crushing of cane; and

WHEREAS, CPCB issued direction dated 02.06.2017 under section 5 of Environment (Protection) Act, 1986 to the Unit to remain closed till compliance with the following directions:

1. i. The Unit shall submit the following reports to CPCB duly validated by reputed institutions like National Sugar Institute, Kanpur/Vasandada Sugar Institute, Pune /IITs within 60 days;
 - a) ETP adequacy assessment reports;
 - b) time bound action plan for ETP augmentation & upgradation upto tertiary treatment level; to comply with the standards notified G.S.R. 35 (E), MoEF&CC, January 14, 2016 for effluent disposal, & waste water conservation.
 - c) water audit and mass balance report to establish waste water generation rate;

(Contd..2/-)

- d) action Plans to achieve the notified effluent discharge quality and generation standards.
 - e) irrigation management plan as per the new notified standards on January 14, 2016; and
- ii. The Unit shall restrict the storage capacity of lined lagoon upto 15 days of effluent generation.
 - iii. The Unit shall meet the BOD-30mg/l standards for discharging any effluent on land /surface water body whereas effluent stored in lined lagoons/tanks of capacity not more than 15 days shall comply with BOD-100 mg/l standards.
2. The Unit shall stabilize the ETP by September 2017 before commencing of the new crushing season. The unit will not be allowed to resume manufacturing operations till stabilization of ETP system.
 3. The Unit shall upgrade of process technology, ETP system & adapt the best practice in a time bound manner and submit a report to CPCB before starting the next crushing season.
 4. The Unit shall seek permission from CPCB, after compliance with the above mentioned directions before resumption of manufacturing operations.

AND WHEREAS, the CPCB received adequacy assessment report vide letter dt. 09.09.2017 from the unit prepared by VSI, Pune; and

WHEREAS, CPCB issued direction dated 02.11.2017 under section 5 of Environment Protection Act, 1986 to the Unit to comply with the following directions;

1. The Unit shall start its operation only after obtaining valid consent from the concerned State Pollution Control Board.
2. The Unit shall submit action plan within 15 days to implement the recommendations (including the general observation) of the adequacy report within 45 days.
3. The Unit shall install & Commission ETP system upto tertiary treatment level including adequate treatment system for spray pond overflow effluent in case of double sulphitation process (Brine recovery system to be installed in case of sugar refinery having Ion Exchange Process for sugar melt de-colorization).
4. The Unit having high pressure boiler (>45 Kg/cm²) shall install & Commission Condensate Polishing Unit (CPU) within 45 days for treatment of condensate water to ensure its reuse & recycle within the process.
5. The Unit shall restrict the effluent storage capacity to 15 days.
6. The Unit shall utilise treated effluent meeting the prescribed norms for irrigation as per the irrigation management plan validated by expert institutions namely, NSI, Kanpur/ VSI, Pune/ Agricultural Institutions.
7. The Unit shall implement the observation and recommendation of the adequacy report within 45 days.

(Contd..3/-)

8. The Unit shall get the verification of implement status of the recommendation of adequacy report including ETP performance assessment & effluent generation assessment done by the same institute which carried out adequacy assessment and submit the report to CPCB within 45 days from date of resumption of manufacturing operations.
9. The analysis result of the treated effluent shall also be submitted within 45 days through EPA recognised laboratories.
10. If the Unit fails to provide the verification report duly validated by the expert institutions, the Unit shall automatically stop all its manufacturing operations after 45 days from date of resumption of manufacturing operations.

AND WHEREAS, the Unit has submitted the implementation of action plan vide letter dt. 25.11.2017 to CPCB; and

WHEREAS, the Unit (M/s Kisan Sahkari Chini Mill Ltd., Tilhar, Shahjahanpur, U.P.) was inspected on 29.01.2018 by officials from CPCB, and following observations are made;

1. During the inspection, the Unit and ETP were operational.
2. The Unit has applied for valid consent under Water (Prevention and Control of Pollution) Act, 1974 & Air (Prevention and Control of Pollution) Act, 1981.
3. The Unit does not have Hazardous Waste Authorization for handling/ disposal.
4. The Unit has applied for NOC from Central Ground Water Authorisation (CGWA).
5. Effluent Treatment Plant (ETP) comprises of Equalisation Tank, Primary Clarifier, Aeration Tank, Secondary Clarifier & Tertiary treatment (Filtration units).
6. Analysis of treated effluent sample shows pH-6.59 as against norms of 5.5-9.0, **BOD-186 mg/l** against norms of 30 mg/l, **COD-301 mg/l** against norms of 250 mg/l and **TSS-77.2 mg/l** against norms of 30 mg/l which indicates non-compliance w.r.t. BOD, COD & TSS with the effluent surface discharge norms prescribed under Environment (Protection) Rules, 1986.
7. MLSS in aeration tank was **440 mg/l** which indicates unstabilised Activated Sludge Process system due to poor operation and maintenance of ETP system and there is possibility of dilution of ETP system.
8. The analysis of underground water sample showed **Total Hardness-270 mg/l** as against norms of 200 mg/l, **Ca²⁺- 75.2 mg/l** against norms of 75 mg/l and **Alkalinity-357 mg/l** against limit of 200 mg/l which is higher than the permissible limit of Bureau of Indian Standards (BIS).
9. Total waste water generation is **421.84 Litre/ tonne** which is higher than the permissible limit.
10. The Unit has installed 03 low pressure boilers (02 of 20 TPH & 01 of 30 TPH capacity) for power generation. Wet scrubbers are installed as APCDs for these boilers. The flue gases are finally emitted through stack of more than 30 m height.

(Contd..4/-)

11. The Unit has installed OCEMS at ETP outlet and connected to CPCB server for online data transmission. The substantial variation found in OCEMS data and CPCB analysis data which indicated the OCEMS system installed is not properly calibrated.
12. The Unit is yet to comply with most of the recommendations made in the VSI report.
13. The Unit has installed a flow meter at the inlet of ETP but it was found non-functional during inspection.
14. The Unit has not submitted the irrigation management plan.
15. The Unit has not submitted revalidated ETP adequacy assessment report to CPCB within 45 days from the date of resumption of operation.

It is evident that the aeration tank of ETP system is not properly stabilised due to poor operation and maintenance of ETP system and there is possibility of dilution of ETP system.

AND NOW, THEREFORE, in view of above observations and in exercise of the powers delegated to the Chairman, CPCB under section 5 of the Environment (Protection) Act, 1986, the unit (M/s Kisan Sahkari Chini Mill Ltd., Tilhar, Shahjahanpur, U.P.) is directed to **close down its manufacturing operations immediately** and shall comply with the following directions;

1. The Unit is directed to close down its Sugar manufacturing operations with immediate effect and shall not resume its operations.
2. The Unit shall obtain valid consent under Water/Air Acts from UPPCB and submit the copies of valid consent to CPCB.
3. The Unit shall install & Commission ETP system upto tertiary treatment level including adequate treatment system for spray pond overflow effluent in case of double sulphitation process.
4. The Unit having high-pressure boiler (>45 Kg/cm²) shall install & Commission Condensate Polishing Unit (CPU) for treatment of condensate water to ensure its reuse & recycle within the process and shall meet the notified standard.
5. The Unit shall restrict the effluent storage capacity to 15 days.
6. The Unit shall submit irrigation management plan and utilise treated effluent meeting the prescribed norms for irrigation as per the irrigation management plan validated by expert institutions namely, NSI, Kanpur/ VSI, Pune/ Agricultural Institutions.
7. The Unit shall get the verification of implement status of the recommendation of adequacy report including ETP performance assessment & effluent generation assessment done by the same institute which carried out adequacy assessment and submit the report to CPCB.
8. The Unit shall submit revalidated ETP adequacy assessment report to CPCB.
9. The Unit shall inform to CPCB about the Closure of operation immediately.
10. The Unit shall seek permission from CPCB before resumption of manufacturing operations.

(Contd..5/-)

In case of default in compliance with the above directions, CPCB will be constrained to initiate action against the Unit (**M/s Kisan Sahkari Chini Mill Ltd., Tilhar, Shahjahanpur, U.P.**) without giving any further notice in accordance with the provisions of the Environment (Protection) Act,1986.

(**S. P. SINGH PARIHAR**)
CHAIRMAN

Copy to:

1. The Chairman

Uttar Pradesh Pollution Control Board,
Building No. TC-12V, Vibhuthi Khand,
Gomti Nagar, Lucknow – 226 010

:With request to ensure compliance
of the directions.

2. Joint Secretary (CP Division)

Ministry of Environment, Forest & C.C
Prithvi Block, Indira Paryavaran Bhawan,
Jorbagh Road, New Delhi – 110 003

:For kind information, please.

3. The District Magistrate

Shahjahanpur-242307, U.P.

:With request to ensure closure of the
unit in compliance of the directions

4. The Superintending Engineer

Madhyanchal Vidyut Vitaran Nigam Limited,
Shahjahanpur, U.P.

:With a direction to disconnect power
supply

5. The Regional Director

Regional Directorate
Central Pollution Control Board, PICUP Bhawan,
Ground Floor, Vibhuti Khand, Gomti Nagar,
Lucknow – 226 010

:For follow up and ensuring
compliance

6. The In-charge, IT Division, CPCB

7. Master file/Guard file, WQM II, CPCB Delhi



(**A SUDHAKAR**)
MEMBER SECRETARY