



Speed Post

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October 26th, 2018
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To,

M/s The Kisan Sahkari Chini Mills Ltd.,
Kaimganj, Farrukhabad,
Uttar Pradesh-209502

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 & 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 The Kisan Sahkari Chini Mills Ltd., Kaimganj, Farrukhabad, U.P. (hereinafter referred as 'the Unit') is involved in the process of sugar manufacturing from crushing of cane; and

WHEREAS, CPCB issued direction under section 5 of Environment (Protection) Act, 1986 to the unit for carrying adequacy assessment of ETP; and

WHEREAS, CPCB received adequacy assessment report vide letter dated 03.10.2017 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 general observation) of adequacy report within 45 days. (Contd...2/-)

M/s The Kisan Sahkari Chini Mills Ltd., Kaimganj, Farrukhabad, U.P.

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.
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 status of recommendations of adequacy report vide letter dated 30.11.2017 to CPCB; and

WHEREAS, the Unit was inspected on 30.01.2018 by officials from CPCB, and following observations were made;

1. The Unit and the ETP were operational at the time of operation.
2. The Unit has not obtained permission from Central Ground Water Authority (CGWA) for the ground water abstraction.
3. The Unit has installed Effluent Treatment Plant (ETP) which is comprised of Mechanical Oil and Grease Skimmer, Equalization Tank, Primary Clarifier, Aeration Tank, Secondary Clarifier, Dual Media Filter, Activated Carbon Filter, Sludge Drying Beds and Treated effluent storage lagoon.
4. The analysis of treated effluent sample shows pH-6.96 as against norms of 5.5-9.0, BOD-20.8 mg/l against norms of 30 mg/l, COD-71.7 mg/l against norms of 250 mg/l and TSS-31.3 mg/l against norms of 30 mg/l which indicates non-compliance w.r.t. TSS with the effluent surface discharge norms prescribed under Environment (Protection) Rules, 1986.
5. Total effluent is discharged 179 L/t by the Unit.

(Contd..3/-)

6. The Unit does not have proper irrigation system and treated effluent is discharged into the drain which is further used by farmers for irrigation purpose.
7. The filtrate from the sludge drying beds is discharged through outlet drain. Sludge drying beds are inadequate for ETP & Sludge was overflowing from beds.
8. The Unit has not maintained proper log book regarding fresh water consumption & ETP operation.
9. Spray pond over flow effluent is transferred into ETP for treatment.
10. The unit has not submitted the irrigation management plan.

AND WHEREAS, CPCB has issued show cause notice dt.13.04.2018 under Section 5 of the Environment (Protection) Act, 1986 to the Unit; and

WHEREAS, the Unit submitted the replies of the show cause notice dt. 13.04.2018 along with revalidated adequacy assessment reports and irrigation management plan validated by VSI, Pune vide letter dt. 14.05.2018; and as per the report following recommendations have been made by VSI, Pune:

1. The unit shall install flow meter for measurement of fresh water addition in spray pond make up, wet scrubber and excess condensate.
2. The unit shall install level sensor on boiler feed water tank to avoid hot effluent generation due to overflow from boiler make up water tank.
3. The unit shall minimize effluent generation and systematic way of cleaning of heating surface, make cleaning schedule and fix schedule at working place.
4. The unit shall send hot waste water generated after chemical boiling of evaporator to ETP after cooling.
5. The unit shall insulate exhaust steam pipe, vapour pipe, evaporator bodies to prevent heat loss.
6. The unit shall cover drain gutter from mill to ETP to prevent bagacillo mixing with effluent at the time of wind blow.
7. The unit shall appoint skilled staff for day to day analysis of ETP.
8. The unit shall install separate treatment system for spray pond overflow to reduce sulphate.
9. The unit shall install anaerobic system followed by aerobic system to reduce sulphate content.
10. The unit is having adequate treatment system for installed capacity of 1250 TCD and effluent generation is estimated as 175.06 L/T.

AND WHEREAS, CPCB through an Expert Committee comprising of experts from National Sugar Institute (NSI), Kanpur, Vasantdada Sugar Institute (VSI), IITs and representatives from sugar mills prepared a Charter for Water Recycling and Pollution Prevention (thereafter referred to as the Charter; and

(Contd...4/-)

WHEREAS, a meeting of sugar mills operating in Uttar Pradesh, representatives of UPPCB and CPCB was held on 06.07.2018 under Chairmanship of Principal Secretary, Sugar Industries and Sugarcane Development, Government of Uttar Pradesh and the following decisions are made:

1. Sugar Mills shall submit an action plan to CPCB by 20.07.2018 regarding the steps taken by them pertaining to the notices issued to them. Also they shall submit action plan to implement recommendations of their adequacy assessment report.
2. All sugar mills shall ensure implementation of Charter and shall submit action plan to CPCB by 20.08.2018.
3. All sugar mills shall ensure the upgradation of their ETP within August, 2018 so as to ensure no interruption in functioning of the ETP in the following seasons.
4. All sugar mills shall maintain a logbook on ETP operations on a daily basis.
5. ETP shall be operational at all times and all bypass arrangements should be dismantled with immediate effect.
6. MLSS in aeration tanks should be maintained at 2000-2500 mg/l.
7. All sugar units shall set up environmental laboratories for regular analysis of raw and treated effluent thereby ensuring proper functioning of the ETP.
8. All sugar mills shall employ dedicated technicians for operating and regular maintenance of ETP and shall also ensure that the technicians are given proper training on ETP maintenance and lab analysis on regular basis.
9. To ensure proper training of the environmental technicians all sugar mills shall facilitate training of 5 employees.
10. All sugar mills may establish an Environment Management Cell at their level consisting of concerned officials in order to ensure compliance with environmental standards at industry level itself.

AND WHEREAS, the unit vide letter dated 24.07.2018 and 03.08.2018 submitted their compliance status of the Charter, which was examined and following observations were made:

1. Spray pond overflow water and factory effluent treated jointly in 2017-18. Now it is being separated for coming season 2018-19.
2. The unit has arranged laboratory, equipment, trained and dedicated staff for routine monitoring and proper maintenance of record.
3. The unit has installed electromagnetic flow meter at tube well before start of the season 2017-18.
4. The unit will install flowmeter for flow of cake washing water, crystallisation and centrifugation before start of the season 2018-19.

AND NOW, THEREFORE, in view of the above observation, and exercising powers delegated to the Chairman, Central Pollution Control Board under section 5 of the Environment (Protection) Act, 1986, the unit (M/s The Kisan Sahkari Chini Mills Ltd., Kaimganj,

(Contd...5/-)

Farrukhabad, Uttar Pradesh) is directed to comply with the following directions before commencement of crushing season 2018-2019;

1. The unit shall implement the observation & recommendation of the revalidated adequacy assessment of ETP.
2. The unit shall install sealed flow meter along with running hours meter on bore wells so as to ascertain usage of fresh water for various uses.
3. The unit shall install flow meters at major areas of cold and hot water consumption.
4. The unit shall install flow meters for measuring generation of effluent from various prominent areas.
5. The unit shall maintain logbook for individual process unit for recording daily water consumption and effluent generation also.
6. The unit shall carry out colour coding of pipelines carrying recycled process water and fresh process.
7. The Unit shall commission mechanical sludge handling system of adequate capacity.
8. The unit shall carry out analysis of effluent discharge parameters notified under Environment (Protection) Rules, 1986 and logbook shall be maintained on daily basis.
9. The unit shall submit the implementation status of the Charter in the form of Affidavit and the documentary proof of the completion of the work as committed in the action plan.
10. The unit shall submit implementation status of the Charter and performance adequacy audit of ETP including actual assessment of water consumption and effluent generation duly validated by reputed government expert institute namely NSI Kanpur, VSI Pune, IITs during crushing season & submit the report to CPCB within 60 days of resumption of operation.

In case of default in compliance with the above directions, CPCB will be constrained to initiate action against the Unit (M/s The Kisan Sahkari Chini Mills Ltd., Kaimganj, Farrukhabad, Uttar Pradesh) without giving any further notice in accordance with the provisions of the Environment (Protection) Act, 1986.


(S.P.S. Parihar)
CHAIRMAN

Copy to:

1. **Principal Secretary (Sugar)**
Sugar Industry and Cane Development
Department, "G" Block 2/3, Mantri Wing 4th
Floor Bapu Bhawan Vidhan Sabha Marg
Lucknow - 226 001

: With request to ensure compliance of the directions.

(Contd..6/-)

2. Member Secretary

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

: For kind information, please.

3. 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.

4. Regional Directorate

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

:For follow up and ensuring
compliance

~~5.~~ In-charge, IT Division, CPCB

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


(PRASHANT GARGAVA)
MEMBER SECRETARY