



Speed Post

B-190197/WQM-II(RG)/CPCB/Sugar/22/2016-17

Oct 16th, 2018
22

To,

M/s The Ganga Kisan Sahkari Chini Mills Ltd.
Morna, Muzaffarnagar,
U.P.-251316

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 Ganga Kisan Sahkari Chini Mills Ltd., Morna, Muzaffarnagar, 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 29.06.2017 under section 5 of the Environment (Protection) Act, 1986 to the Unit for carrying out ETP adequacy assessment by reputed institutions; and

WHEREAS, the CPCB received adequacy assessment report on vide letter dated 01.09.2017 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;

(Contd..2/-)

AND WHEREAS, the Unit has submitted implementation status of recommendations of the adequacy report vide letter dated 23.12.2017; and

WHEREAS, the Unit was inspected on 15.02.2018 by officials from CPCB and following observations were made;

1. The Unit and ETP were operational.
2. Effluent Treatment Plant (ETP) comprises of Bar Screen, Oil & Grease removal, Equalisation Tank, Primary Clarifier, Aeration Tank, Secondary Clarifier & Tertiary treatment (Filtration units).
3. The analysis of treated effluent sample showed pH-6.72 as against norms of 5.5-9.0, **BOD-188 mg/l** against norms of 30 mg/l, **COD- 541 mg/l** against norms of 250 mg/l, **TSS- 67 mg/l** against norms of 30 mg/l and **Oil & Grease-16 mg/l** against norms of 10 mg/l which indicated non-compliance w.r.t. BOD, COD, TSS and Oil & Grease with effluent surface discharge norms prescribed under Environment (Protection) Rules,1986.
4. MLSS in aeration tank was **882 mg/l**. which indicated unstabilised Activated Sludge Process system due to poor operation and maintenance of ETP system.
5. Treated waste water is discharged through unlined channel adjacent to the lagoon.
6. Flow meters were installed at one bore well, and overflow of Spray pond. However, flowmeters were not installed with totalizer at bore well.

WHEREAS, CPCB issued direction dated 07.05.2018 under Section 5 of the Environment (Protection) Act, 1986 to the unit for compliance of the following:

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 install & Commission ETP system upto tertiary treatment level including adequate treatment system for spray pond overflow effluent in case of double sulphitation process
3. 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.
4. The Unit shall restrict the treated waste water storage lagoon capacity of 15 days for low demand period for irrigation.
5. 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.
6. 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.
7. The Unit shall submit revalidated ETP adequacy assessment report to CPCB immediately.
8. The Unit shall inform to CPCB about the Closure of operation immediately.

Contd..3/-)

9. The Unit shall seek permission from CPCB before resumption of manufacturing operations.

AND WHEREAS, the Unit submitted the revalidated adequacy assessment report prepared by VSI Pune, received on dt. 07.06.2018 and as per the report following recommendation have been made by VSI Pune

1. Flow meters to be installed at major unit operations to ascertain and control hot and cold-water requirement.
2. Flow meters to be installed at various fresh water consumption points.
3. The Unit should install the standby pump to all condensate pump to reduce loss of condensate.
4. The unit is having adequate treatment facility for installed capacity of 2500TCD and effluent generation is 189 litre/tonne for cane crushed.

WHEREAS, the Unit compliance status of the direction dated 07.06.2018 submitted vide letters dated 12.07.2018 & 27.09.2018 were examined; 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

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.

Contd...4/-)

AND WHEREAS, the unit vide letter dated 12.07.2018 submitted their compliance status of the Charter, which was examined and following observations were made:

- 1) Flow meter is provided at tube well and logbook is maintained.
- 2) Flow meters for cold water usage are provided at various points as per charter.
- 3) Flow meters for hot water usage are provided at various points as per charter.
- 4) Installation of flow meters to determine generation of gross effluent quantity at different places at different places such as cooling tower outlet, inlet and outlet of ETP have been done.
- 5) Recirculation of water employed in SO₂ coolers has been done.
- 6) Construction of small pits at boiler feed water pumps, gland cooling pumps at evaporator etc have been done.
- 7) Construction of Hazardous tanks/soda tank below evaporator stations has been done.
- 8) Use of hot water during pan boiling will be minimised during season as per CPCB charter.
Surplus cold condensate is sent to fresh water reservoir to reduce fresh water consumption for the plant.
- 9) The unit has planned to arrange training for its technical staff on ETP Operation and Maintenance.
- 10) Unit have made a lab for analytical facilities. Procurement of equipments and chemicals is under process.

AND WHEREAS, the Three Member Committee in its meeting held on 08.10.2018 examined the revalidated adequacy assessment report, & implementation status of the Charter and recommended that the unit may be allowed to resume operation.

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 Ganga Kisan Sahkari Chini Mill, Morna, U.P) is directed to comply with the following directions before commencement of crushing season 2018-2019.

1. The unit shall start its operation only after obtaining the valid consent from the Uttar Pradesh Pollution Control Board.
2. The unit shall implement the observation & recommendation of the revalidated adequacy assessment of ETP.
3. 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.
4. The unit shall install flow meters at major areas of cold and hot water consumption.
5. The unit shall install flow meters for measuring generation of effluent from various prominent areas.
6. The unit shall maintain logbook for individual process unit for recording daily water consumption and effluent generation also.
7. The unit shall carry out colour coding of pipelines carrying recycled process water and fresh process water.
8. The Unit shall commission mechanical sludge handling system of adequate capacity.

(Contd...5/-)

9. The unit shall carry out analysis of effluent discharge parameters notified under Environment (Protection) Rules, 1986 and logbook shall be maintained on daily basis.
10. 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 before resumption of crushing season 2018-2019.
11. 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 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 Ganga Kisan Sahkari Chini Mill, Morna, U.P.) without giving any further notice in accordance with the provisions of the Environment (Protection) Act, 1986.



18/11/18

(S. P. SINGH PARIHAR)
CHAIRMAN

(Contd....6/)

Copy to:

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| <p>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</p> <p>2. Member Secretary
Uttar Pradesh Pollution Control Board,
Building No. TC-12V, Vibhuthi Khand,
Gomti Nagar, Lucknow - 226 010</p> <p>3. Joint Secretary (CP Division)
Ministry of Environment, Forest & C.C
Prithvi Block, Indira Paryavaran Bhawan,
Jorbagh Road, New Delhi - 110 003</p> <hr/> <p>4. District Magistrate
Muzaffarnagar, U.P.</p> <p>5. Superintending Engineer
Paschimanchal Vidyut Vitaran Nigam Limited,
Muzaffarnagar, U.P.</p> <p>6. Regional Director
Regional Directorate
Central Pollution Control Board, PICUP Bhawan,
Ground Floor, Vibhuthi Khand, Gomti Nagar,
Lucknow - 226 010</p> <p>✓ 7. In-charge, IT Division, CPCB</p> <p>8. Master file/Guard file, WQM II, CPCB Delhi</p> | <p>With request to ensure compliance of
the directions</p> <p>With request to ensure compliance of
the directions.</p> <p>With request to ensure compliance of
the directions</p> <p>To reconnect the power supply of the
unit, please</p> <p>:For follow up and ensuring
compliance</p> |
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(PRASHANT GARGAVA)
MEMBER SECRETARY