

Speed Post

B-190198/WQM-II(RG)/CPCB/Sugar/40/2016-17

22.05.2019

To,

M/s Kisan Sahkari Chini Mill Ltd.
Semikhera, Bareilly
U.P.-243203

**CLOSURE 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 Kisan Sahkari Chini Mill Ltd., Semikhera, Bareilly, U.P. (hereinafter referred as 'the Unit') is involved in the process of sugar manufacturing from crushing of cane; and

AND WHEREAS, the Unit was inspected on 24.01.2018 by officials from CPCB, Delhi and following observations were made;

1. The unit has **bypass arrangement** for untreated effluent through drainage to local drain. Analysis of effluent sample collected from bypass drain showed **BOD-656 mg/l, TSS-438 mg/l & COD-1130 mg/l** which indicated discharge of untreated effluent.
2. The Unit has common outlet of both the ETPs and its analysis of treated effluent sample showed pH-6.3, against 5.5-9.0, **TSS- 274** against 30 mg/l, **BOD-572 mg/l** against 30 mg/l, **COD- 1027 mg/l** against 250 mg/l at the common outlet of both the ETPs which indicates non-compliance with the effluent discharge norms prescribed under Environment (Protection) Rules, 1986.
3. The final wastewater discharge is **235 l/ton** which is higher than the permissible limit.

AND WHEREAS, CPCB issued closure direction dated 05.03.2018 under Section 5 of the Environment (Protection) Act, 1986 the unit to comply 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 dismantle the bypass arrangement and stop untreated effluent discharge immediately.
3. The Unit shall also comply with new standards notified G.S.R. 35 (E), MoEF&CC, January 12, 2016 for effluent disposal, waste water conservation and pollution control management.
4. 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).

5. The Unit having high-pressure boiler ($>45 \text{ Kg/cm}^2$) shall install & Commission Condensate Polishing Unit (CPU) within 45 days for treatment of condensate water to ensure its reuse & recycle within the process.
6. The Unit shall restrict the effluent storage capacity to 15 days.
7. 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.
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.
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.

AND WHEREAS, the Unit's reply vide letter dated 20.03.2018 was examined; and

WHEREAS, the Unit submitted the revalidated adequacy assessment reports prepared by VSI, Pune vide letters dt. 08.06.2018 which was examined and following observations were made:

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 consumption points.
3. Flow meters to be installed at ETP inlet and outlet.
4. The unit shall make proper arrangement either to arrest the leakage or collect the leakage material shift to safety place.
5. The unit shall avoid the hot wastewater generation by chemical boiling of evaporator bodies and saving follow hydro jet systems.
6. The unit shall adopt a technology to reduce the steam utilization to reduce the use of fresh water.
7. Effluent generation is estimated as 174.17 litre/tonne for cane crushed.

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.
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 28.7.2018 submitted their compliance status of the Charter, which was examined and following observations were made:

1. The unit is in the process of installing necessary flow meters at requisite points as prescribed under the Charter and has assured completion of the same by 30.09.2018.
2. The unit has submitted action plan/ compliance report on upgradation of ETP.
3. The unit is maintaining proper logbook for bore-well readings thereby recording their fresh water consumption on regular basis.
4. The unit has stated that no untreated/ partially treated effluent is being discharged on land.
5. The unit shall employ hydro-jet for cleaning of heat exchanger unit.
6. The unit has planned to arrange training for its technical staff on ETP Operation and Maintenance.
7. The unit has submitted compliance report on BMT for Water Recycling and Pollution Prevention.

AND WHEREAS, CPCB issued direction dated 22.10.2018 under Section 5 of the Environment (Protection) Act, 1986 the unit 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.
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.
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

AND WHEREAS, the unit was inspected on 28.03.2019 by officials from CPCB, Delhi and following observations area made:

1. The unit has installed water meter for industrial use as well as domestic purpose and logbooks maintained.

2. Dry cleaning of floor to reduce the waste water generation is implemented.
3. Mill turbine and bearing cooling water was being used through UGR and stopped using external cooling water.
4. Pit provision for collection at juice from gland leakage and overflow juice tanks and other activities implemented.
5. Use of treated waste water and boiler blowdown in ash quenching and wet scrubber respectively implemented.
6. Installation on different heat bodies to avoid heat loss due to radiation and reduction of steam percentage cane to bring down upto 42 % from 52 % by adopting advance technology and maintain capacity utilization not less than 100 % which will achieve low / zero consumption of the raw water as well as reduce the cost of production per ton of cane and enhance the profit – not implemented.
7. The recommendations made by NSI Kanpur on upgradation of the ETP have been fully implemented.
8. The waste water generation in the unit is 164 liter/ton of cane crushing against the 200 liter/ ton of cane crushing.
9. The unit does not have valid consent under Water Act & Air Act. The consent was expired on 31.12.2017 and the unit has applied for the renewal of the same.
10. The spray pond overflow of unit was being directly discharged outside premises of the unit without any treatment.
11. The unit has obtained permission from CGWA for the abstraction of ground water for one bore well.
12. The MLSS in Aeration tank was found 2084 mg/l.
13. As per the analysis report the unit is complying with the prescribed norms at outlet of ETP w.r.t. pH: 7.47 (norms: 5.5-8.5), COD: 2017 mg/l (norms: 250 mg/l), BOD: 49.01 mg/l (norms: 100 mg/l), TSS: 15 mg/l (norms: 100mg/l), TDS: 631 mg/l (norms: 2100 mg/l) and Oil & Grease: BDL (norms: 10 mg/l) parameters, but sample collected from lagoon, the concentration of **BOD (115 mg/l against the norms of 100 mg/l), COD (669 mg/l against the norms of 250 mg/l)** found more than the prescribed norms.

It is evident that the unit discharges its partially treated/untreated effluent, thereby posing serious threat to the surface and groundwater quality.

AND WHEREAS, the unit start their manufacturing operations without obtaining the valid consent from the Uttar Pradesh Pollution Control Board, which is in violation of CPCB direction dated 22.10.2018 issued under section 5 of the Environment (Protection) Act, 1986; and

WHEREAS, as per the methodology for assessing penalty and environmental compensation, the environmental compensation to be levied to the unit is calculated as **Rs. 31,80,000/- (Rupees Thirty-One lacs eighty thousand only) for the non-compliance period (24.01.2018 to 09.05.2018) and Rs.99,60,000/- (Rupees Ninety-Nine Lacs Sixty Thousand only) for the non-compliance period (28.11.2018 to 12.05.2019)** for the crushing season 2018-19; and

NOW, THEREFORE, in exercise of powers delegated to Chairman CPCB under Section 5 of the Environment (Protection) Act, 1986, the unit is directed to remain close and deposit **Rs.1,31,40,000/- (Rupees One Crore Thirty One Lacs Forty Thousand Only)** in CPCB A/c No. **532702050000164** (Bank name: Union Bank Of India, IP Extension Branch, Vikas Marg Extn., Delhi; IFSC: UBIN0553271) towards environmental compensation within 15 days from the date of receipt of direction and shall comply with the following directions:

1. The Unit shall remain closed and not operate without seeking permission from CPCB.
2. The unit shall submit adequacy assessment of treatment facility by reputed government institute; including work completion report regarding implementation of the recommendations of the adequacy report within 45 days.
3. The unit shall obtain consent under water and Air acts and authorization of Hazardous waste from UPPCB.
4. The unit shall seek permission from CPCB, after compliance of the above directions, before 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 Kisan Sahkari Chini Mill Ltd., Semikhera, Bareilly, 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:

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| <p>1. Principal Secretary (Sugar)
Sugar Industry and Cane Development Department,
Govt. of U.P., "G" Block, 2/3, Mantri Wing, 4th
Floor, Babu Bhawan, Vidhan Sabha Marg
Lucknow - 226 001</p> | <p>With request to ensure compliance of the directions</p> |
| <p>2. Chairman
Uttar Pradesh Pollution Control Board,
Building No. TC-12V, Vibhuthi Khand, Gomti
Nagar, Lucknow - 226 010</p> | <p>:With request to ensure compliance of the
directions.</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> | <p>: For kind information, please.</p> |
| <p>4. District Magistrate
Bareilly-243203, U.P.</p> | <p>:With request to compliance of the directions</p> |
| <p>5. Regional Director
Regional Directorate
Central Pollution Control Board, PICUP Bhawan,
Ground Floor, Vibhuthi Khand, Gomti Nagar,
Lucknow - 226 010</p> | <p>: For follow up and ensuring compliance</p> |
| <p>6. Managing Director,
Madhyanchal Vidyut Vitran Nigam Limited
Head Office 4-A, Gokhale Marg, Lucknow :- 226001</p> | <p>: To dis-connect the power supply of the unit,
Please</p> |
| <p><input checked="" type="checkbox"/> 7. In-charge, IT Division, CPCB</p> | |
| <p>8. Master file/Guard file, WQM II, CPCB Delhi</p> | |


(PRASHANT GARGAVA)
MEMBER SECRETARY

o/c

