



Speed Post

B-190197/WQM-II(RG)/CPCB/Sugar/78/2018-19

October 16, 2018  
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To,

M/S UTTAM SUGAR MILL LTD.  
BARKATPUR, TEHSIL-NAZIBABAD,  
BIJNOR, U.P.-246 732

**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 Uttam Sugar Mill Ltd., Barkatpur, Nazibabad, Bijnor, 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 06.06.2017 under section 5 of Environment Protection Act, 1986 to the Unit to remain closed till compliance of the following directions : i) Submission of ETP adequacy assessment report ii) Time bound action plan of ETP augmentation iii) Water audit and mass balance report iv) Action plan to achieve notified effluent discharge quality and generation standards v) Irrigation management plan vi) Restriction of storage of treated effluent in lined lagoon only for 15 days and other directions pertaining to proper running of effluent treatment system, with all the reports and action plans validated by reputed institutions like National Sugar Institute (NSI), Kanpur/Vasandada Sugar Institute (VSI), Pune /IITs submitted to CPCB within 60 days; and

**WHEREAS**, the Unit has submitted the Water balance and ETP adequacy assessment report vide letter dt.11.09.2017 duly validated by NSI, Kanpur; 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 to implement recommendations of adequacy report.
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/cm<sup>2</sup>) 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 failed 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 was inspected on 08.03.2018 by officials from CPCB and following observations were made;

1. The Unit and ETP were operational.
2. The Unit has valid consent under Water (Prevention and Control of Pollution) Act, 1974 & Air (Prevention and Control of Pollution) Act, 1981 upto 31.12.2019.
3. Effluent Treatment Plant (ETP) comprised of Bar screen, Oil & Greases skimmer, Lamella clarifier (for spray pond overflow), Equalisation Tank, Primary Clarifier, Aeration Tank, Secondary Clarifier & Tertiary treatment (Filtration units).
4. Analysis of treated effluent sample shows pH-7.36 as against norms of 5.5-9.0, **BOD- 41 mg/l** against norms of 30 mg/l, COD- 127 mg/l against norms of 250 mg/l, and **TSS- 80 mg/l** against norms of 30 mg/l which indicates non-compliance w.r.t. BOD & TSS against surface water discharge norms prescribed under Environment (Protection) Rules, 1986.
5. MLSS in aeration tank was 2148 mg/l.
6. The Unit has provision for treatment of spray pond overflow.
7. Flow meters were installed at bore well and manufacture processes.
8. The Unit has constructed an impermeable lagoon with capacity of 19425 m<sup>3</sup> for storage of treated effluent.
9. The Unit has not submitted irrigation management plan.
10. The Unit failed to submit analysis result of treated effluent through Environment (Protection) Act, 1986 recognised laboratory within 45 days from the date of resumption of operation.

**AND WHEREAS**, CPCB issued a show cause notice dated 23.05.2018 under section 5 of the Environment (Protection) Act, 1986 to the Unit; 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 reply vide letter dated 10.07.2018 and 18.07.2018 was examined and following observations were made:

1. The Unit has submitted the revalidation report of water recycling and ETP adequacy report prepared by NSI, Kanpur.
2. The Unit has submitted action plan for modification of secondary clarifier in the effluent treatment system by installing a tube settler to make up short deficit of retention time.
3. Treated effluent from ETP is used for ferti-irrigation on land after storing in the lined lagoon, for which irrigation management plan has been prepared by NSI, Kanpur.
4. Flowmeters will be installed before the start of the crushing season for 2018-19.
5. The capacity of the ETP plant shall be adequate to handle the generated effluent from the plant at the rated capacity of 7200 TCD.
6. The generation of effluent from the factory is expected to be around 182 litres per ton of cane crushed (including 40 litres per ton of cane from co-gen units).
7. The Unit has submitted ETP treated effluent analysis test report from UPPCB and third party monitoring report of stack emission with samples collected during last crushing season (November 2017).

**AND NOW, THEREFORE**, in view of the above observations and exercising powers delegated to the Chairman, Central Pollution Control Board under section 5 of the Environment (Protection) Act, 1986, the unit (M/s Uttam Sugar Mill Ltd., Barkatpur, Najibabad, Bijnor, U.P.) is directed to comply with the following directions;

1. The Unit shall operate the effluent treatment plant properly as to achieve the notified treated effluent discharge standards as per Standard G.S.R. 35 (E), MoEF & CC, January 14, 2016.
2. The unit shall implement the observation & recommendation of the revalidated adequacy assessment of ETP before commencement of crushing season 2018-2019.
3. The unit shall install flow meters at major areas of cold and hot water consumption before commencement of crushing season 2018-2019.
4. The unit shall install flow meters for measuring generation of effluent from various prominent areas before commencement of crushing season 2018-2019.
5. The unit shall maintain logbook for individual process unit for recording daily water consumption.

6. The unit shall carry out colour coding of pipelines carrying recycled process water and fresh process water before commencement of crushing season 2018-2019.
7. Daily ETP performance monitoring and maintenance of logbook of the monitoring data shall be carried out.
8. 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.
9. The unit shall submit implementation status of the Charter and performance audit of ETP 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 period.

In case of default in compliance with the above directions, CPCB will be constrained to initiate action against the Unit (M/s Uttam Sugar Mill Ltd., Barkatpur, Najibabad, Bijnor, U.P.) without giving any further notice in accordance with the provisions of the Environment (Protection) Act, 1986.

  
17/11/19  
**(S.P. SINGH PARIHAR)**  
**CHAIRMAN**

**Copy to:**

1. **Principal Secretary (Sugar)** : For kind information, please.  
Sugar Industry and Cane Development Department,  
"G" Block  
2/3, Mantri Wing  
4th Floor, Bapu Bhawan  
Vidhan Sabha Marg  
Lucknow - 226 001
2. **Member Secretary** : With request to ensure compliance of  
Uttar Pradesh Pollution Control Board, the directions.  
Building No. TC-12V, Vibhuthi Khand,  
Gomti Nagar, Lucknow - 226 010
3. **Joint Secretary (CP Division)** : For kind information, please.  
Ministry of Environment, Forest & C.C  
Prithvi Block, Indira Paryavaran Bhawan,  
Jorbagh Road, New Delhi - 110 003
4. **District Magistrate** : For kind information, please.  
Bijnor, U.P.
5. **Regional Director** : For follow up and ensuring compliance.  
Regional Directorate  
Central Pollution Control Board, PICUP Bhawan,  
Ground Floor, Vibhuthi Khand,  
Gomti Nagar, Lucknow - 226 010
6. **In-charge, IT Division, CPCB** : For uploading on CPCB website
7. **Master file/Guard file, WQM II, CPCB Delhi** : For record

  
**(PRASHANT GARGAVA)**  
**MEMBER SECRETARY**