



Speed Post

B-190198/WQM-II (RG)/CPCB/Sugar/50/2017-18

Oct 16, 2018

To,

M/s Mawana Sugar Works,  
Mawana, Meerut,  
U.P.-250402

**DIRECTION UNDER SECTION 5 OF 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 Mawana Sugar Works, Mawana, Meerut, 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 15 May, 2017 under section 5 of the Environment (Protection) Act, 1986 to the Unit for compliance with the following:

1. The unit shall install the online continuous effluent monitoring system on the main outlet channel of ETP.

**AND WHEREAS**, the Unit submitted adequacy assessment report vide letter dt.06.10.2017 prepared by NSI, Kanpur which was examined; and

**WHEREAS**, the unit has submitted implementation of action plan vide letter dt 11.10.2017 & 15.11.2017 of recommendations of adequacy report prepared by NSI, Kanpur; and

(Contd..2/-)

M/s Mawana Sugar Works, Mawana, Meerut, U.P.

**WHEREAS**, the Unit was inspected on 04.01.2018 by officials of CPCB and following observations were made; and

1. The Unit was operational at the time of inspection.
2. The ETP is comprises of oil & grease skimmer, equalization tank, aeration tank, tertiary treatment and sludge drying beds.
3. The Unit does not have provision for the treatment of spray pond overflow.
4. The Unit has not installed Condensate Polishing Unit (CPU).
5. The Primary Clarifier and Lagoon with a capacity of 12000 KL are under construction.
6. The Unit was bypassing the untreated effluent from the process into the drain outside the premise of the unit in the front gate of the unit.
7. Analysis of untreated effluent being bypasses shows **BOD-276 mg/l** as against norms of 30 mg/l, **TSS-256 mg/l** against norms of 30 mg/l which indicated non-compliance with prescribed effluent discharge norms under Environment (Protection) Act, 1986.

**AND WHEREAS**, CPCB issued closure direction dated 07.02.2018 under section 5 of Environment Protection Act, 1986 to the Unit to comply with the following directions;

1. The Unit was directed to close down its sugar manufacturing operations with immediate effect and shall not resume its operation.
2. The Unit shall dismantle the bypass arrangement and stop untreated effluent discharge immediately.
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 and 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 effluent storage capacity to 15 days.
6. 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.
7. The unit shall inform to CPCB about the closure of operation immediately.
8. The unit shall seek permission from CPCB before resumption of manufacturing operations.

**AND WHEREAS**, the Unit's replies vide letter dated 15.02.2018 , 19.02.2018 and 22.02.2018, were examined and the Unit has denied to accept that the Unit has bypass arrangement. However, the Unit was discharging untreated water through a channel outside the premises and reaching into Mawana drain as per the observations on inspection dated 04.01.2018; and

**WHEREAS**, the Unit was re-inspected on 28.02.2018 by officials of CPCB, Delhi and following observations were made;

**(Contd..3/-)**

1. The Unit and ETP were operational at the time of inspection which is in violation of CPCB direction dated 07.02.2018 issued under section 5 of Environment (Protection) Act, 1986.
2. Bypass arrangements opening into outside drain (municipal drain) near front gate of the Unit was found blocked/ closed at the time of inspection. However, an open unlined drain was observed which was opening outside the boundary of industry from residential blocks of the industry situated around 150-200 meters from Ram Mandir towards the rear side boundary wall in the industry premises and was found discharging into the Mawana drain passing through the fields.
3. Analysis of treated effluent sample showed pH-7.32 as against norms of 5.5-9.0, **BOD-42 mg/l** against norms of 30 mg/l, COD-202 mg/l against norms of 250 mg/l, and **TSS-108 mg/l** against norms of 30 mg/l which indicated non-compliance w.r.t. pH, BOD, COD, and TSS with effluent surface discharge norms prescribed under Environment (Protection) Rules, 1986.
4. Analysis of treated effluent sample taken from lagoon shows pH-7.14 as against norms of 5.5-9.0, **BOD-67 mg/l** against norms of 30 mg/l, COD-213 mg/l against norms of 250 mg/l, and **TSS-51 mg/l** against norms of 30 mg/l which indicated non-compliance w.r.t. pH, BOD, COD, and TSS with effluent surface discharge norms prescribed under Environment (Protection) Rules, 1986.
5. The Unit has not submitted revalidated adequacy assessment report.

**AND WHEREAS**, the Unit submitted the revalidated adequacy assessment reports and irrigation management plan prepared by NSI, Kanpur vide letter dt. 12.04.2018; and as per the report following recommendations have been made by NSI, Kanpur:

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. ETP system of the unit shall require revalidation after suggested additions/ modifications.
4. Effluent generation is estimated as 177.25 litre/tonne for cane crushed.

**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 (hereafter 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.

(Contd..4/-)

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 25.09.2018 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 before start of the crushing season 2018-19.
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 already set up environmental laboratory with dedicated technical staff.
7. The unit has planned to arrange training for its technical staff on ETP Operation and Maintenance.
8. The unit has submitted compliance report on BMT for Water Recycling and Pollution Prevention.

**AND WHEREAS**, the Three Member Committee in its meeting held on 04.10.2018 examined the revalidated adequacy assessment report, & implementation status of the Charter and recommended that the unit may be allowed to resume operation.

**(Contd..5/-)**

**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 Mawana Sugar Works, Mawana, Meerut, U.P.) is directed to comply of 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

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

  
(S. P. SINGH PARIHAR)  
CHAIRMAN

(Contd..6/-)

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.

**2. The Chairperson**

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

:With request to ensure compliance of  
the directions.

**3. The Incharge (CP Division)**

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

: For kind information, please.

**4. The District Magistrate**

Meerut, U.P.-250402

With request to ensure compliance  
of the directions

**5. The Superintending Engineer**

Paschimanchal Vidyut Vitran Nigam Ltd.  
Meerut, U.P.-250402

To reconnect the power supply of the  
unit, please

**6. The Regional Director**

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

: For follow up and ensuring  
compliance

✓ **7. The In-charge, IT Division, CPCB**

**8. Master file/Guard file WQM II, CPCB Delhi**

**(Prashant Gargava)**  
MEMBER SECRETARY