

**BY REGISTERED AD**

B-190198/NGRBA(RG)/CPCB/Distillery/38/2016-17 2276 Dated, 28<sup>th</sup> May, 2018

June 4<sup>th</sup>

To,  
M/s New Swadeshi Sugar Mills (Distillery Division),  
Narkatiyaganj, Dist-West Champaran,  
Bihar – 845455.

**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 there under and also to meet the consent conditions granted by State Pollution Control Board (SPCBs) / Pollution Control Committees (PCCs); and

**WHEREAS**, M/s New Swadeshi Sugar Mills (Distillery Division) Bihar, (hereinafter referred as 'the Unit') is involved in the manufacturing process of extra neutral alcohol and rectified spirit using molasses as raw material and;

**WHEREAS**, CPCB issued direction dated 30.03.2017 to close down manufacturing operations of the unit until installation of required online monitoring devices and providing connectivity to CPCB; and

**WHEREAS**, the unit vide email dated 04.05.2017 informed that the unit has installed flow meters and cameras required for ZLD units and has provided connectivity of these systems to CPCB server, and the same had been verified by the IT Division in CPCB.

**WHEREAS**, CPCB issued revocation direction dated 31-05-2017 to the unit, along with direction for compliance with the following:

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1. The unit shall submit following reports duly validated by reputed institutions like National Sugar Institute, Kanpur, Vasantdada Sugar Institute, Pune and IITs to CPCB and Bihar SPCB within 60 days:
  - a) Assessment of the manufacturing technology for spent wash generation and adequacy assessment of ZLD system comprising of Biomethanation, RO, MEE, composting/incineration system and steam availability, etc.
  - b) Water audit and mass balance reports to establish spent wash generation rate,
  - c) Action Plans to achieve Zero Liquid Discharge (ZLD),
  - d) To restrict lined effluent storage capacity to 30 days, and
  - e) Assessments of availability of press mud, compost yard, composting process, sell of compost and compost quality.
2. The unit shall install mass flow meters at inlet of ROs/MEE, outlet of MEE and to make arrangement for continuous online transmission of spent wash flow measurements (namely Weak Spent Wash, Strong Spent Wash)/ web camera data of Spent Wash generation, concentration & MEE operation by providing linkage to CPCB & SPCBs servers within 75 days.
3. The unit shall identify recipient drains/ rivulets and their u/s & d/s locations in consultation with Bihar SPCB for monthly monitoring by industry to ensure ZLD from distilleries within 30 days. The monitoring report shall be submitted to CPCB on monthly basis.
4. The unit will provide documentary support for procurement/ availability of press mud, sell of compost and compost quality on monthly basis (by 10<sup>th</sup> of every month) to CPCB/Bihar SPCB.

**AND WHEREAS**, as per the CPCB direction dated 31.05.2017, the unit has completed the following;

1. The unit has submitted adequacy assessment report prepared by VSI, Pune on 25.09.2017.
2. The adequacy assessment report of the unit was examined and the following observations are made:
  - a. The process technology adopted by the unit is fed batch fermentation with MPR distillation.
  - b. The unit has adequate ZLD system, comprising of Biomethanation followed by Standalone Multiple Effect Evaporation and finally Biocomposting,
  - c. The average spent wash generated per kilolitre of alcohol produced is 10.66 kilolitres.
  - d. The water balance of the unit indicates that actual fresh water consumption per kilolitre of alcohol produced is 14.28 kilolitres.
  - e. As per mass balance flow chart, the unit is achieving ZLD and there is no discharge of untreated or treated water from the unit.
  - f. The unit is treating a total quantity of 530 KLPD non process effluent in modified

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

ETP of the sugar unit which is being used as condensate polishing unit (CPU) by the unit.

- g. The unit has a brick edge BMSW storage tank with effluent storage capacity restricted to 30 days.
- h. The biocompost yard area of 12.5 acres is adequate as per the report. The details of availability of press mud, biocompost production and sale, ratio of pressmud to spent wash and biocompost quality have been provided in the report.
3. The unit has completed the installation of mass flow meters at inlet and outlet of MEE and has provided connectivity of web camera to CPCB and SPCB servers.
4. The unit has identified the recipient rivulet as Harboura River and has submitted monitoring report of its u/s and d/s locations for the period from September to December, 2017.
5. The unit has submitted copy of records of alcohol/rectified spirit production, spent wash generation (namely weak spent, strong spent wash) details of MEE operations, mass flow meter readings connected with CPCB server etc. on monthly basis for the period from September,2017 to January,2018.
6. The unit has provided documentary support for procurement/ availability of press mud, sale of compost and compost quality on monthly basis for the period from September,2017 to January,2018.

**AND WHEREAS**, the unit was inspected by the officials of Central Pollution Control Board (CPCB) on 11.01.2018 for compliance verification and following observations have been made as per the inspection report;

1. The unit was in operation at the time of inspection.
2. The OCEMS status was found satisfactory with mass flow meters installed at inlet and outlet of MEE and having connectivity with CPCB & SPCB servers.
3. The MEE was not operating satisfactorily.
4. The unit has been using modified sugar plant ETP as CPU. However, the analysis report of representative sample of treated condensate from the CPU indicated that it is not functioning properly with **BOD (533 mg/l) and COD (928 mg/l)** high and beyond the discharge limits assigned by CPCB for land disposal.

**AND NOW THEREFORE**, in view of the above observations and in exercise of powers delegated under Section 5 of the Environment (Protection) Act, 1986, **the unit (M/s New Swadeshi Sugar Mills (Distillery Division))** is directed to comply with the following;

1. The unit shall ensure that MEE plant be fully functional at all times when the distillery plant is in operation.
2. The unit shall ensure proper functioning of the Condensate Polishing Unit (CPU).
3. The unit shall submit adequacy assessment of Condensate Polishing Unit (CPU) for treatment of MEE condensate, spent lees, fermenter wash etc., as well as outlet

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quality of CPU, along with action plan for recycle and reuse of the treated water within 30 days.


4. The unit shall ensure that treated condensate from the CPU unit is recycled as cooling tower make-up and dilution of molasses in fermentation section while the cooling tower blow down and boiler blowdown shall be sent to the MEE plant. The unit shall not discharge treated water from the distillery plant.

In case of default in compliance with the above directions by the Unit, CPCB will be constrained to initiate appropriate action against the Unit, in accordance with the provisions of the Environment (Protection) Act, 1986.

  
**(S. P. SINGH PARIHAR)**  
**CHAIRMAN**

Copy to:

1. **Member Secretary** : For kind information please  
Bihar State Pollution Control Board,  
Beltron Bhawan, Shastri Nagar,  
Patna – 800 023
2. **Regional Director, East** : For kind information please  
Regional Directorate  
Central Pollution Control Board  
Southernd Conclave, Block 502,  
5<sup>th</sup> & 6<sup>th</sup> Floors 1582 Rajdanga Main Road  
Kolkata – 700 107(W.B.)
3. **District Magistrate,** : For kind information please  
West Chapmaran -Bihar
4. In-charge, IT Division, CPCB
5. Master file/Guard file, WQM II, CPCB, Delhi

  
**(A SUDHAKAR)**  
**MEMBER SECRETARY**