

**SPEED POST**

B-190197/WQM-II/RG/CPCB/SUGAR/7/2018-19

May 09<sup>th</sup>, 2018

To,

M/s Magadh Sugar & Energy Ltd.  
(Unit-Bharat Sugar Mill),  
P.O. Sidhwalia, Dist: Gopalganj,  
Bihar-841423

**DIRECTION UNDER SECTION 5 OF THE ENVIRONMENT (PROTECTION) ACT, 1986-  
CLOSURE NOTICE THEREOF**

**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 Magadh Sugar & Energy Ltd., Sidhwalia, Gopalganj, Bihar (hereinafter referred as 'the Unit') is involved in the process of sugar manufacturing from crushing of cane; and

**WHEREAS**, CPCB issued direction dated 05.06.2017 under section 5 of Environment Protection Act, 1986 to the Unit to remain closed till compliance with the following directions:

1. The unit shall remain close till compliance with the following directions.
  - i. The Unit shall submit the following reports to CPCB duly validated by reputed institutions like National Sugar Institute, Kanpur/Vasandada Sugar Institute, Pune /IITs within 60 days;
    - a) ETP adequacy assessment reports;

**(Contd..2/-)**

- b) time bound action plan for ETP augmentation & upgradation upto tertiary treatment level; to comply with the standards notified G.S.R. 35 (E), MoEF&CC, January 14, 2016 for effluent disposal, & waste water conservation.
  - c) water audit and mass balance report to establish waste water generation rate;
  - d) action Plans to achieve the notified effluent discharge quality and generation standards.
  - e) irrigation management plan as per the new notified standards on January 14, 2016; and
- ii. The Unit shall restrict the storage capacity of lined lagoon upto 15 days of effluent generation.
  - iii. The Unit shall meet the BOD-30mg/l standards for discharging any effluent on land /surface water body whereas effluent stored in lined lagoons/tanks of capacity not more than 15 days shall comply with BOD-100 mg/l standards.
2. The Unit shall stabilize the ETP by September 2017 before commencing of the new crushing season. The unit will not be allowed to resume manufacturing operations till stabilization of ETP system.
  3. The Unit shall upgrade of process technology, ETP system & adapt the best practice in a time bound manner and submit a report to CPCB before starting the next crushing season.
  4. The Unit shall seek permission from CPCB, after compliance with the above mentioned directions before resumption of manufacturing operations.

**AND WHEREAS**, the CPCB received adequacy assessment report vide letter dated 06.10.2017 from the unit prepared by NSI, Kanpur; and

**WHEREAS**, CPCB issued direction dated 08.11.2017 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 an undertaking on stamp paper with duly notarised/ signed by Oath Commissioner within a week for not bypassing any type of untreated effluent even on their own land.
3. The Unit shall submit action plan within 15 days to implement the recommendations (including the general observation) of the adequacy report within 45 days.
4. The Unit shall install & Commission ETP system up to 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).

(Contd..3/-)

5. 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.
6. The Unit shall restrict the effluent storage capacity to 15 days.
7. 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.
8. The Unit shall implement the observation and recommendation of the adequacy report within 45 days.
9. 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.
10. The analysis result of the treated effluent shall also be submitted within 45 days through EPA recognised laboratories.
11. If the Unit fails 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 has not submitted implementation status of recommendations of the adequacy report; and

**WHEREAS**, the Unit (M/s Magadh Sugar & Energy Ltd., Sidhwalia, Gopalganj, Bihar) was inspected on 08.01.2018 by officials from CPCB, and following observations are made;

1. The Unit and ETP were operational.
2. The Unit has applied for valid consent under Water (Prevention and Control of Pollution) Act, 1974 & Air (Prevention and Control of Pollution) Act, 1981.
3. Effluent Treatment Plant (ETP) comprises of Bar Screen, Equalisation Tank, Primary Clarifier, Aeration Tank, Secondary Clarifier & filtration units.
4. Analysis of treated effluent sample shows pH-7.2, against 5.5-9.0, **BOD-249 mg/l** against 30 mg/l, **COD- 616 mg/l** against 250 mg/l, **TSS- 81 mg/l** against 30 mg/l which indicates non-compliance w.r.t. BOD, COD & TSS with effluent surface discharge norms prescribed under Environment (Protection) Rules, 1986.
5. The MLSS in aeration tank was found 530 mg/l which indicates un-stabilised Activated Sludge Process system and poor operation and maintenance of aeration tank of ETP system.
6. The OCEMS readings are also found non-compliance w.r.t. **BOD-44.32 mg/l** against norms of 30 mg/l and **TSS- 50.88 mg/l** against norms of 30 mg/l.
7. The Unit has installed cooling tower but there is no separate treatment of excess water containing sulphate.

(Contd..4/-)

**It is evident that the aeration tank of ETP system is not properly stabilised and untreated/partially treated effluent is being discharged by the Unit, posing potential threat to surface water/ground water quality.**

**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 Magadh Sugar & Energy Ltd., Sidhwalia, Gopalganj, Bihar) is directed to **close down its manufacturing operations immediately** and shall comply with the following directions;

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 up to 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/cm<sup>2</sup>) 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 treated waste water storage lagoon capacity of 15 days for low demand period for irrigation.
5. The Unit shall get 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.
6. The unit shall submit the irrigation management plan validated by expert institutes namely NSI, Kanpur/VSI, Pune/Agricultural institute.
7. The Unit shall submit revalidated ETP adequacy assessment report to CPCB immediately.
8. The Unit shall inform to CPCB about closure of operation immediately.
9. The Unit shall seek permission from CPCB before resumption of manufacturing operations.

In case of default in compliance with the above directions, CPCB will be constrained to initiate action against the Unit (**M/s Magadh Sugar & Energy Ltd., Sidhwalia, Gopalganj, Bihar-841423**) without giving any further notice in accordance with the provisions of the Environment (Protection) Act, 1986.

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**(S. P. SINGH PARIHAR)**  
CHAIRMAN  
(Contd..5/-)



**Copy to:**

1. **Member Secretary**  
Bihar Pollution Control Board,  
Parivesh Bhawan, Plot No. Ns-B/2  
Patliputra Industrial Area,  
Patliputra, Patna (Bihar) – 800023
2. **Joint Secretary (CP Division)**  
Ministry of Environment, Forest & C.C  
Prithvi Block, Indira Paryavaran Bhawan,  
Jorbagh Road, New Delhi – 110 003
3. **The District Magistrate**  
Gopalganj, Bihar-843327
4. **The Superintending Engineer**  
North Bihar Power Distribution Company Ltd.,  
Gopalganj, Bihar
5. **Regional Director**  
Regional Directorate,  
Central Pollution Control Board,  
Southern Conclave, Block-502, 5th & 6th Floor,  
1582 Rajdanga Main Road  
Kolkata-700107 (W.B.)
6. In-charge, IT Division, CPCB
7. Master file/Guard file, WQM II, CPCB Delhi

: With request to ensure compliance of the directions.

: For kind information, please.

: To ensure closure and sealing of the unit in compliance of the directions

: With a direction to disconnect power supply

: For follow up and ensuring compliance



**(A SUDHAKAR)**

**MEMBER SECRETARY**