



SPEED POST

B-190197/WQM-II/RG/CPCB/SUGAR/7/2018-19 12029

Oct 22nd, 2018
26

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

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 the Environment (Protection) Act, 1986 to the Unit for carrying out ETP adequacy assessment by reputed institutions; and

WHEREAS, CPCB received adequacy assessment report vide letter dated 06.10.2017 from the unit prepared by VSI, Pune; and

WHEREAS, CPCB issued directions dated 08.11.2017 under section 5 of the Environment (Protection) Act, 1986 to the Unit; and

(Contd..2/-)

WHEREAS, the Unit was inspected on 08.01.2018 by officials from CPCB, and following observations were made;

1. The Unit and ETP were operational.
2. Effluent Treatment Plant (ETP) comprises of Bar Screen, Equalisation Tank, Primary Clarifier, Aeration Tank, Secondary Clarifier & filtration units.
3. Analysis of treated effluent sample showed 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 indicated non-compliance w.r.t. BOD, COD & TSS with effluent surface discharge norms prescribed under Environment (Protection) Rules, 1986.
4. The MLSS in aeration tank was found 530 mg/l which indicated un-stabilised Activated Sludge Process system and poor operation and maintenance of aeration tank of ETP system.
5. 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.
6. The Unit has installed cooling tower but there is no separate treatment of excess water containing sulphate.

AND WHEREAS, CPCB issued direction dated 14.05.2018 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 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/cm²) 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.

(Contd..3/-)

AND WHEREAS, the unit vide letter dated 17.08.2018 submitted their compliance status of the Charter, which was examined and following observations are made:

1. The unit has installed necessary flow meters at requisite points as prescribed under the Charter.
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 05.09.2018 examined the revalidated adequacy assessment report, & implementation status of the Charter and recommended that the unit may be allowed to resume operation with following conditions:

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 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 Bihar State 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 before commencement of crushing season 2018-2019.
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.

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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 Govt. 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 Magadh Sugar & Energy Ltd., Sidhwalia, Gopalganj, Bihar**) without giving any further notice in accordance with the provisions of the Environment (Protection) Act, 1986.



(S. P. SINGH PARIHAR)
CHAIRMAN

25.10.18

(Contd..6/-)

ofc

Magadh

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Copy to:

1. **Principal Secretary**
Sugarcane Industries,
Govt. of Bihar
Department of Sugarcane Development
Vikas Bhawan, New Secretariat
Patna-800015
With request to ensure compliance of the directions
2. **Member Secretary**
Bihar Pollution Control Board,
Parivesh Bhawan, Plot No. Ns-B/2
Patliputra Industrial Area,
Patliputra, Patna (Bihar) – 800023
: With request to ensure compliance of the directions.
3. **Joint Secretary (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**
Gopalganj, Bihar-843327
: With request to ensure compliance of the directions
5. **The Superintending Engineer**
North Bihar Power Distribution Company Ltd.,
Gopalganj, Bihar
: To reconnect the power supply of the unit, please
6. **Regional Director**
Regional Directorate,
Central Pollution Control Board,
Southern Conclave, Block-502, 5th & 6th Floor,
1582 Rajdanga Main Road
Kolkata-700107 (W.B.)
: For follow up and ensuring compliance
7. In-charge, IT Division, CPCB
8. Master file/Guard file, WQM II, CPCB Delhi


(Prashant Gargava)
MEMBER SECRETARY