



केन्द्रीय प्रदूषण नियंत्रण बोर्ड
CENTRAL POLLUTION CONTROL BOARD
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय भारत सरकार
MINISTRY OF ENVIRONMENT, FOREST & CLIMATE CHANGE GOVT. OF INDIA

Speed Post

B-190198/WQM-II(RG)/CPCB/Sugar/70/2016-17

Oct 16th, 2018
23

To,

M/s Tirupati Sugar Ltd.,
Village-Narainpur, Bagaha,
West Chamaparan,
Bihar-545105

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 Tirupati Sugar Ltd., Village-Narainpur, Bagaha, West Chamaparan, Bihar (hereinafter referred as 'the Unit') is involved in the process of sugar manufacturing from crushing of cane; and

WHEREAS, CPCB issued direction dated 16.06.2017 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 11.09.2017 from the Unit prepared by VSI, Pune; and

WHEREAS, CPCB issued revocation direction dated 02.11.2017 under section 5 of Environment (Protection) Act, 1986 to the Unit; and

WHEREAS, the Unit has submitted action plan to implement recommendations of adequacy report vide letter dated 21.11.2017 to CPCB; and

(Contd..2/-)

M/s Tirupati Sugar Ltd., Village-Narainpur, Bagaha, West Chamaparan, Bihar

'परिवेश भवन' पूर्वी अर्जुन नगर, दिल्ली-110032

Parivesh Bhawan, East Arjun Nagar, Delhi-110032

दूरभाष/Tel : 43102030, 22305792, वेबसाइट/Website : www.cpcb.nic.in

AND WHEREAS, the Unit was inspected on 13.01.2018 by officials from CPCB, and following observations were made;

1. The Unit and the ETP were operational.
2. The Unit has installed Effluent Treatment Plant (ETP) which is comprised of Oil and Grease trap, Equalization Tank, Surge tank, Primary Clarifier, Aeration Tank, Secondary Clarifier, Sand and Activated Carbon Filter.
3. Inlet flow meter is installed between equalization tank and primary clarifier instead of installation at the main inlet of the ETP.
4. The analysis of treated effluent sample showed pH-6.44 as against norms of 5.5-9.0, **BOD-176 mg/l** against norms of 30 mg/l, **COD-304 mg/l** against norms of 250 mg/l and **TSS-75 mg/l** against norms of 30 mg/l which indicated non-compliance w.r.t. BOD, COD & TSS with the effluent surface discharge norms prescribed under Environment (Protection) Rules, 1986.
5. The MLSS in aeration tank is **353 mg/l** which indicates unstabilised Activated Sludge Process system due to poor operation and maintenance of ETP system.
6. The Unit has installed OCEMS and provided connectivity with CPCB server.

AND WHEREAS, the Unit has submitted the revalidated adequacy assessment reports from VSI, Pune vide letter dt. 26.03.2018; and as per the report following recommendations have been made by VSI, Pune:

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. The unit should replace the existing cleaning system with the hydro-jet cleaning system.
4. The unit should construct a common collection tank and collect condensate water from all traps and collected water should be sent to the imbibition tank.
5. The unit should construct a sludge drying bed as per the requirement.
6. Validated waste water generation is 178.51litre/tonne of cane crushed.

AND WHEREAS, CPCB issued direction dated 16.04.2018 under Section 5 of the Environment (Protection) Act, 1986 to the unit for compliance of 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 upto 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 and shall meet the notified standard.
4. The Unit shall restrict the effluent storage capacity to 15 days.

(Contd..3/-)

5. The Unit shall submit irrigation management plan and 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.
6. 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.
7. The Unit shall submit revalidated ETP adequacy assessment report to CPCB.
8. The Unit shall inform to CPCB about the Closure of operation immediately.
9. The Unit shall seek permission from CPCB before resumption of manufacturing operations.

AND WHEREAS, the Unit's reply vide letter dated 21.04.2018 was examined; 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 Bihar, representatives of BSPCB and CPCB was held on 10.08.2018 under Chairmanship of Chairman, Bihar State Pollution Control Board, and the following decisions are made

1. Sugar Mills shall submit an action plan to CPCB by 20.08.2018 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 15.09.2018.
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.

(Contd..4/-)

WHEREAS, the unit vide letter dated 18.08.2018 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 by 30.09.2018.
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.

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.

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 Tirupati Sugar Ltd., Narainpur, Bagaha, West Champaran, Bihar) is directed to 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.
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.

(Contd..5/-)

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 before resumption of crushing season 2018-2019.
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 Tirupati Sugar Ltd., Village-Narainpur, Bagaha, West Champaran, Bihar**) without giving any further notice in accordance with the provisions of the Environment (Protection) Act, 1986.


(S. P. SINGH PARIHAR)
CHAIRMAN

(Contd..6/-)

M/s Tirupati Sugar Ltd., Village-Narainpur, Bagaha, West Champaran, Bihar

o/c

Ajayeshwari

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. **The Chairman**
Bihar Pollution Control Board,
Parivesh, Bhawan, Plot No., Ns-B/2,
Patliputra, Patna (Bihar)-800 023
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**
West Chamaparan-545105, Bihar
: With request to ensure compliance of the directions.
5. **The Superintending Engineer**
Bihar State Power Holding Company Ltd. (BSPHCL),
West Champaran-845438, Bihar
: To reconnect the power supply of the unit, please
6. **The Regional Director**
Regional Directorate
Central Pollution Control Board,
southern Conclave, Block-502,
5th & 6th Floor, 1582, Rajdanga Main Road,
Kolkata – 700 107 (W.B.)
: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