

Speed Post

B-190197/WQM-II (RG)/CPCB/Sugar/53/2016-17

30.05.2019
06.06

To,

2304

M/S NANGLAMAL SUGAR COMPLEX
NANGLAMAL, MEERUT,
UTTAR PRADESH-250001

**DIRECTION UNDER SECTION 5 OF THE ENVIRONMENT (PROTECTION) ACT, 1986-
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 Nanglamal Sugar Complex, Nanglamal, Meerut, U.P. (hereinafter referred as 'the Unit') is involved in the process of sugar manufacturing from crushing of cane; and

WHEREAS, the Unit was inspected on 23.03.2018 by officials from CPCB, Delhi and following observations were made;

1. Effluent Treatment Plant (ETP) comprised of Oil & Greases skimmer, Equalisation Tank, Primary Clarifier, Aeration Tank, Secondary Clarifier & Tertiary treatment (Filtration units).
2. Analysis of treated effluent sample shows pH-7.15 as against norms of 5.5-9.0, BOD- 19 mg/l against norms of 30 mg/l, COD- 116 mg/l against norms of 250 mg/l, TSS- 43 mg/l against norms of 30 mg/l which indicates non-compliance w.r.t. TSS against surface water discharge norms prescribed under Environment (Protection) Rules, 1986.
3. MLSS in aeration tank was 1271 mg/l which indicates un-stabilised Activated Sludge Process system due to poor operation and maintenance of ETP system and possibility of dilution of ETP system.
4. The Unit has installed brine recovery plant for refinery sugar unit.
5. Treated effluent is discharged into lagoon and utilised for irrigation purpose. However, lagoon was empty at the time of inspection.
6. The Unit has not installed Condensate Polishing Unit (CPU) for high pressure having capacity of 120 TPH.
7. The Unit has installed 'V' notch at spray pond overflow.
8. Flow meters were installed at manufacture processes.
9. The Unit has submitted irrigation management plan.

AND WHEREAS, the Unit has submitted the validation report of adequacy assessment report from NSI, Kanpur vide their letter dated 27.03.2018; and

WHEREAS, a show cause notice dated 18.05.2018 under Section 5 of the Environment (Protection) Act, 1986, was issued to the Unit; and

WHEREAS, Unit reply vide letter dated 13.06.2018 was examined and the following points were observed;

1. The Unit has submitted that the ETP of the Unit is operating as per guidelines and treated effluent is being analysed on monthly basis by EPA approved laboratory.
2. The Unit has claimed that the MLSS analysis of samples from aeration tank of ETP is being carried out in their laboratory and found the MLSS maintained around 3000 mg/l.
3. The Unit is utilizing the treated wastewater from ETP in irrigation of own green belt and farmers land after temporary storage in lined lagoon.
4. The Unit is under process of finding the appropriate technology/party for installation of Condensate Polishing Unit, currently the condensate is being reused in process.
5. The Unit has informed that it has submitted their irrigation plan for utilization of treated effluent duly validated by CSA University of Agriculture & Technology, Kanpur.

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 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.
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 has submitted action plan on Charter for Water Recycling & Pollution Prevention in Sugar factories and action plan on Bare Minimum Technology to be adopted by Sugar Industry vide their letters dated 26.07.2018, 17.09.2018 and 25.09.2018; and

WHEREAS, CPCB has issued direction dated 16.10.18 under section 5 of the Environment (Protection) Act, 1986, to the unit to comply with the following directions before commencement of crushing season 2018-19;

1. The Unit shall operate the effluent treatment plant properly as to achieve the notified treated effluent discharge standards as per Standard G.S.R. 35 (E), MoEF & CC, January 14, 2016.
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 will carry out analysis of parameters of treated effluent notified under Environment (Protection) Rules, 1986 on daily basis and maintain its logbook.
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 Government institute namely NSI Kanpur, VSI Pune, IITs during crushing season & submit the report to CPCB within 60 days of resumption of operation.

AND WHEREAS, the Unit was inspected on 03.04.2019 by team of officials from CPCB and following observations are made;

1. The unit has installed flowmeter with running hour meters at bore wells.
2. The unit has installed flow meter at equalization tank of ETP and outlet of ETP.
3. The unit has installed the flowmeter at major area of hot & cold water consumption.
4. The unit has maintained the logbook of individual flowmeter.
5. The unit has done colour coding of pipeline.
6. The unit has not installed the mechanical sludge handling system.
7. Lagoon was found dry during inspection; treated water used for irrigation and unit has closed pipeline network in fields.
8. The unit has maintained logbook on daily basis of treated effluent analysis results.
9. The unit has install telemetric piezometer system in the unit and reading was found during visit 19.68 m.
10. The unit has proposed to install the mechanical sludge handling system by next crushing season.
11. The condensate polishing unit has not been installed. As per information by unit representative, a natural draft cooling tower of 450 m³/hr installed for cooling of excess condensate. Cooled condensate is re-used as makeup water in cooling tower and process cold water UGR.
12. As per analysis report, outlet of ETP was found complying w.r.t pH-7.51 as against 5.5-8.5, COD -213 mg/l as against 250 mg/l, BOD -48 mg/l as against 100 mg/l, TDS -736 as against of 2100 mg/l, Oil & Grease – BDL as against 10 mg/l and found non-complying w.r.t **TSS- 143** as against 100 mg/l as per norms for disposal on land.
13. MLSS in aeration tank was found 4592 mg/l and MLVSS was 60% of the MLSS.
14. Treated effluent used in irrigation field was found complying w.r.t Ph-7.49 as against 5.5-8.5, COD -143 mg/l as against 250 mg/l, BOD - 29 mg/l as against 100 mg/l, TDS -692 as against of 2100 mg/l and found non-complying w.r.t **TSS- 119** as against 100 mg/l as per norms for disposal on land.
15. Unit has already submitted irrigation plan to CPCB.

It is evident that partially treated effluent is being discharged by the Unit, posing potential threat to surface water/ground water quality.

NOW, THEREFORE, in view of the above observations and in exercise of the powers, delegated to the Chairman, CPCB under section 5 of the Environment (Protection) Act, 1986, notice is hereby served to the Unit (M/s Nanglamal Sugar Complex, Nanglamal, Meerut, U.P.) to **show cause, why the Unit should not be closed** down until all the necessary pollution control measure are planned and implemented so as to comply with the prescribed effluent discharge standards notified under Environment (Protection) Act, 1986 to satisfaction of CPCB.

You are hereby given an opportunity to file your objections (if any) to the above proposed direction within 15 days from the date of receipt of this notice, failing which appropriate action will be taken against the Unit without giving any further notice as, in accordance with provision of the Environment (Protection) Act, 1986.

(S.P. SINGH PARIHAR)
CHAIRMAN

03.06.2019

Copy to:

1. **Principal Secretary** : For kind information, please.
Sugar Industry and Cane Development Department,
"G" Block , 2/3, Mantri Wing, 4th Floor, Bapu
Bhawan, Vidhan Sabha Marg, Lucknow - 226 001
2. **Member Secretary** : With request to ensure compliance of the
Uttar Pradesh Pollution Control Board, Building No.
TC-12V, Vibhuthi Khand, Gomti Nagar,
Lucknow – 226 010 directions.
3. **Joint Secretary (CP Division)** : For kind information, please.
Ministry of Environment, Forest & C.C
Prithvi Block, Indira Paryavaran Bhawan, Jorbagh
Road, New Delhi – 110 003
4. **District Magistrate** : For kind information, please
Meerut
5. **Regional Director** : For follow up and ensuring compliance
Regional Directorate
Central Pollution Control Board, PICUP Bhawan,
Ground Floor, Vibhuthi Khand,
Gomti Nagar, Lucknow – 226 010
6. **In-charge, IT Division, CPCB** : For uploading on CPCB website
7. **Master file/Guard file, WQM II, CPCB Delhi** : For record

(PRASHANT GARGAVA)
MEMBER SECRETARY