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To,

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

**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 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

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

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

**WHEREAS**, Unit reply vide letter dated 13.06.2018 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 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 26.10.18 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 effluent is used for irrigation and unit has provided 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 m<sup>3</sup>/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.

**AND WHEREAS**, the unit vide letter dated 23.04.2019 submitted their compliance report including actual assessment of water consumption and effluent generation of season 2018-19 validated by NSI, Kanpur which indicates fresh water consumption of 145.2 l/t of cane and effluent generation of 144 l/t of cane; and

**WHEREAS**, CPCB issued show cause notice dt. 06.06.2019 under Section 5 of the Environment (Protection) Act, 1986 to the unit as the unit failed to meet the effluent discharge norms; and

**WHEREAS**, the unit reply vide letter dated 25.06.2019 was examined and following observations are made:

1. The unit has installed flow meter on bore wells so as to ascertain usage of fresh water for various uses.
2. The unit has installed flow meters at major areas of cold and hot water consumption.
3. The unit has installed flow meters for measuring generation of effluent from various prominent areas.
4. The unit is maintaining logbook for individual process unit for recording daily water consumption and effluent generation also.

5. The unit has adequate sludge drying bed. However, unit is exploring vendors for suitable mechanical sludge handling system.
6. The unit has cooling tower of 450m<sup>3</sup>/hr capacity installed for cooling of excess condensate. The cooled condensate is being reused in makeup water in cooling tower and process cold water UGR.
7. The unit has provided the analysis results of the treated effluent through EPA recognised laboratories and going to replace the media of sand filter and activated carbon to control any deviation in prescribed limit.

**AND NOW, THEREFORE,** in view of above observations and in exercise of powers delegated to Chairman CPCB under Section 5 of the Environment (Protection) Act, 1986, the unit (M/s Nanglamal Sugar Complex, Nanglamal, Meerut, U.P.) is directed to comply with the following directions:

1. The unit shall comply with CPCB directions dt. 26.10.2018 and provide compliance report within 60 days.
2. The unit shall install condensate polishing unit for excess condensate as per CPCB direction dated 02.11.2017.
3. The unit shall submit treated effluent analysis report from EPA recognized laboratory under Environment (Protection) Rules, 1986 within 15 days of resume of operation in next crushing season.

In case of default in compliance with the above directions, CPCB will be constrained to initiate action against the Unit (M/s Nanglamal Sugar Complex, Nanglamal, Meerut, U.P.) without giving any further notice in accordance with the provisions of the Environment (Protection) Act, 1986.

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

**Copy to:**

1. **Principal Secretary** : For kind information, please.  
 Sugar Industry and Cane Development  
 Department, "G" Block, 2/3, Mantri Wing, 4th  
 Floor, Babu Bhawan, Vidhan Sabha Marg,  
 Lucknow - 226 001
2. **Member Secretary** : With request to ensure compliance of  
 Uttar Pradesh Pollution Control Board, Building No.  
 TC-12V, Vibhuthi Khand, Gomti Nagar,  
 Lucknow - 226 010  
 the 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