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October 23rd, 2018
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To,

M/s Dwarikesh Sugar Industries Ltd.
Dwarikesh Puram Afzalgarh,
Bijnor, U.P.-246762

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 Dwarikesh Sugar Industries Ltd., Dwarikeshpuram, Afzalgarh, Bijnor (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 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 dt. 23.09.2017 from the unit prepared by NSI, Kanpur; and

WHEREAS, the Unit was inspected on 26.10.2017 for compliance verification; and

WHEREAS, CPCB issued revoke direction dated 10.11.2017 under section 5 of Environment Protection Act, 1986 to the Unit; and

WHEREAS, the unit submitted the revalidated adequacy assessment report validated by NSI, Kanpur vide letter dated 05.03.2018 wherein the following observations have been made:

1. Necessary flowmeters have been installed at measuring points.
2. The unit has maintained logbooks for various flowmeters installed.
3. The unit has installed system for spray pond/ process cooling tower overflow treatment.
4. The capacity of the ETP plant is adequate to handle effluent generated at plant capacity of 6000 TCD.
5. Spray pond/ process cooling tower overflow is being treated at ETP before discharging for irrigation.

WHEREAS, the unit was inspected on 12.04.2018 by officials from CPCB, Delhi and following observations were made;

1. Effluent Treatment Plant (ETP) comprised of Oil & Grease Skimmer, Equalisation Tank, Primary Clarifier, Aeration Tank, Secondary Clarifier & Tertiary treatment (Filtration units). However, the lamella system was found non-operational during the inspection.
2. Analysis of treated effluent sample shows pH-7.41 as against norms of 5.5-9.0, **BOD-52 mg/l** against norms of 30 mg/l, COD- 101 mg/l against norms of 250 mg/l & **TSS- 35 mg/l** against norms of 30 mg/l which indicates non-compliance w.r.t. BOD & TSS with the effluent surface discharge norms prescribed under Environment (Protection) Rules, 1986.
3. MLSS in aeration tank was 8038 mg/l which indicates improper operation & maintenance of ETP system.
4. Multiple discharge points were observed which indicate possibility of bypassing untreated effluent through these multiple channels.
5. The Unit has installed the lamella system for treatment of spray pond overflow. However, the lamella system was found non-operational during the inspection.
6. The Unit has not installed CPU unit for high pressure boiler.
7. A lagoon was constructed for storage of treated effluent. However, it was found empty during inspection.
8. The Unit has not submitted irrigation management plan.

AND WHEREAS, CPCB issued Show Cause Notice dated 05.06.2018 under Section 5 of Environment (Protection) Act, 1986 based on the observation made in the inspection report of 22.03.2018; and

WHEREAS, the unit reply dated 27.06. 2018 was examined and following observations were made:

1. The unit submits that it only has one outlet.
2. All the units of ETP were operational at the time of inspection.
3. The unit is doing chemical treatment of excess condensate which is utilized in Cogen cooling tower.

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 vide letter dated 19.07.2018 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 20.08.2018.
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 submitted that it shall send its personnel for training whenever NSI conducts the training programme.
8. The unit has submitted compliance report on BMT for Water Recycling and Pollution Prevention.

AND NOW, THEREFORE, in view of the above observation, and exercising powers delegated to the Chairman, Central Pollution Control Board under section 5 of the Environment (Protection) Act, 1986, the unit (M/s Dwarikesh Sugar Industries Ltd., Dwarikeshpuram, Afzalgarh, Bijnor) is directed to comply with the following directions before commencement of crushing season 2018-2019:

1. The unit shall restrict its production capacity upto 6000 TCD subject to obtaining valid consent from UPPCB.
2. The unit shall implement the observation & recommendation of the revalidated adequacy assessment of ETP.
3. The unit shall maintain MLSS in the aeration between 2000- 2500 mg/l.
4. The unit shall maintain logbook for individual process unit for recording daily water consumption and effluent generation also.
5. The unit shall carry out colour coding of pipelines carrying recycled process water and fresh process water.
6. The unit shall commission mechanical sludge handling system of adequate capacity.
7. The unit shall carry out analysis of parameters as per Environment (Protection) Rules, 1986 on daily basis and maintain logbook of the same.
8. 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.

9. The unit shall submit implementation status of the Charter and performance audit of ETP 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 period.

In case of default in compliance with the above directions, CPCB will be constrained to initiate action against the unit (M/s Dwarikesh Sugar Industries Ltd., Dwarikeshpuram, Afzalgarh, Bijnor.) 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

25.10.18

Copy to:

1. **Principal Secretary (Sugar)**
Sugar Industry and Cane Development Department,
"G" Block, 2/3, Mantri Wing
4th Floor, Babu Bhawan
Vidhan Sabha Marg, Lucknow - 226 001
2. **Chairperson**
Uttar Pradesh Pollution Control Board,
Building No. TC-12V, Vibhuthi Khand,
Gomti Nagar, Lucknow - 226 010
3. **Joint Secretary (CP Division)**
Ministry of Environment, Forest & C.C
Prithvi Block, Indira Paryavaran Bhawan,
Jorbagh Road, New Delhi - 110 003
4. **Regional Director**
Regional Directorate
Central Pollution Control Board, PICUP Bhawan,
Ground Floor, Vibhuthi Khand, Gomti Nagar,
Lucknow - 226 010
- ✓ 5. **In-charge, IT Division, CPCB**
6. **Master file/Guard file, WQM II, CPCB Delhi**

With request to ensure compliance of the directions.

For kind information, please.

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(Prashant Gargava)
MEMBER SECRETARY

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