

Speed Post

B-190198/NGRBA(RG)/CPCB/Distillery/26/2016-07

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Nov, 09, 2017

To,

**M/s Uttam Sugar Mills Ltd.
(Distillery Division)
Village Barkatpur, Tehsil-Najibabad
District-Bijnor,
Uttar Pradesh-246763**

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 Uttam Sugar Mills Ltd. (Distillery Division) Bijnor, U.P (hereinafter referred as 'the Unit') is involved in the manufacturing process of extra neutral alcohol and rectified spirit from molasses; and

WHEREAS, the unit was inspected by the officials of Central Pollution Control Board (CPCB), dated 26.12.2016 for the verification of compliance by the unit and following observations are made during the inspection;

- a) The unit is a molasses based distillery having installed capacity of 75 KLD. During the visit the unit was in operation.
- b) The unit has installed Bio-digester, MEE, followed by Bio-composting and incineration for the management of spent wash. Bio-digester is having installed capacity of 158000 m³.
- c) The unit was running its operations without having valid consent.
- d) Pool of spent wash was observed in a big area behind the Distillery unit near Pundri Khurd. Ganga canal was also found filled with spent wash; sample was collected from

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the River Malan and Ganga canal at village Pundri Khurd. Analysis report from Ganga canal showed, **pH-8.83, COD-2837 mg/l, BOD-1737mg/l, TSS-351mg/l**. Analysis of sample drawn from Malan River showed **pH-8.83, COD-53 mg/l, BOD-10mg/l, TSS-79mg/l & TDS -368**. These samples analysis reports indicate possibility of illegal discharge of spent wash into these river bodies.

- e) Villagers of Pundri Khurd informed about discharge of spent wash through tanker into surface water bodies in night.
- f) The unit is violating the consent conditions and the direction issued by CPCB earlier in this regard and is supposed to utilise the entire effluent in bio composting.

AND WHEREAS, CPCB issued closure direction under section 5 of E(P)A, dated 23.03.2017 for complying with the following:

1. To immediately discontinue the practice of discharging of untreated effluent and dismantle the bypass arrangements.
2. Implement the Zero Liquid Discharge (ZLD) action plan, as per the direction of CPCB & UPPCB.
3. The unit shall submit adequacy assessment report of the ETP system/up gradation plan prepared by reputed institution like Vasantdada Sugar Institute, Pune, National Sugar Institute, Kanpur, IITs etc to CPCB.

AND WHEREAS, the unit's replies vide letters dated 05/04/2017 & 15/05/2017 were examined and following observations are made;

1. The unit has full-fledged effluent treatment system to achieve ZLD, the unit has installed Bio-digester, MEE followed by bio-composting.
2. The unit is having consent validity up to Dec, 2018.
3. The unit has maintained a lagoon for storage of concentrated effluents, before being utilized for Bio-composting, near Phundri Khurd.
4. The unit has informed that they are maintaining ZLD action plan, and the unit is not discharging any effluents into the nearby river.
5. The unit has provided an assessment report duly validated by NSI, Kanpur.

AND WHEREAS, the unit was inspected by the officials of Central Pollution Control Board (CPCB), Delhi on 23.05.2017 for the verification of compliance by the unit and following observations are made during the inspection;

1. The unit was found closed in compliance to the direction of CPCB dated, 23.3.2017.
2. The unit has a valid Air and Water consent valid up to 31, December, 2018.
3. The unit has installed Bio-digestester, MEE followed by bio-composting for management of spent wash.
4. During inspection the nearby drain was found in dry condition.
5. The unit has installed online connectivity of flow meter and web cameras at requisite positions.

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AND WHEREAS, on the basis of assessment report submitted by M/s Uttam Sugar Mills Ltd. (Distillery Division), Bijnor, U.P., following are the recommendations and observations;

- Although the present effluent treatment system is adequate, the unit should install a modern
- & adequate capacity Condensate Polishing Unit (CPU) in due course of time for treatment of evaporation condensate, spent lees, cooling tower blow-down water, washing water etc and to make it suitable for use for dilution of molasses, cooling tower make up and other non-process applications.
- Installation of magnetic flow meter with totalizer in distillery plant for measurement of raw spent wash outlet is recommended.
- Installation of magnetic flow meter with totalizer in bio-composting process for measurement of concentrated spent wash spraying on press mud is also recommended.
- The unit should have a additional spent wash spraying and mixing machine.
- It is advisable to install one more camera on the new bio-compost yard for online monitoring as per the CPCB norms. This additional camera will help in monitoring the whole activities in the bio-compost premises.
- It is also advisable to take proper care of green belt surrounding the bio-compost yard.
- If possible, it is also advisable to implement rain water harvesting system inside the distillery premises.

AND WHEREAS, CPCB issued direction dated 20.7.2017 under Section 5 of Environment Protection Act, 1986 to comply with the following;

1. The unit shall submit a time bound action plan for implementation of the recommendations of the adequacy report within 30 days .The action plan after implementation shall be verified by the same institute which prepared the adequacy report and the verification shall be submitted to CPCB within next 45 days.
2. The unit shall submit following reports duly verified by expert institutions like; Vasantdada Sugar Institute/National Sugar Institute/IITs & submit their report to CPCB & UPPCB within 30 days.
 - a) Water audit and mass balance reports to establish spent wash generation rate,
 - b) Action Plans to achieve Zero Liquid Discharge(ZLD),
 - c) To restrict lined effluent storage capacity to 30 days, and
 - d) Assessments of availability of press mud, compost yard, composting process, sell of compost and compost quality.
3. The unit shall install mass flow meters with totalizer at inlet of ROs/MEE, outlet of MEE and to make arrangement for continuous online transmission of spent wash flow measurements (namely Weak Spent Wash, Strong Spent Wash)/ web camera data of Spent Wash generation, concentration & MEE operation by providing linkage to CPCB & UPPCB servers within 75 days.

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4. The unit shall identify recipient drains/ rivulets and their u/s & d/s locations in consultation with UPPCB for monthly monitoring by industry to ensure ZLD from distilleries within 30 days. The monitoring report shall be submitted to CPCB on monthly basis.
5. The unit will provide documentary support for procurement/ availability of press mud, sell of compost and compost quality on monthly basis (by 10th of every month) to CPCB/UPPCB.
6. The unit shall provide undertaking for not discharging effluent into any water body/land.

WHEREAS, unit submitted adequacy assessment report by NSI, Kanpur and as per the adequacy assessment and as per the assessment report, following observations are made;

1. The factory has adopted batch fermentation along with MPR distillation; however the factory is going in for installation of FED-batch fermentation system which is considered as better technology as compared to conventional batch type fermentation system.
2. For treatment of effluent, the factory has installed Bio-digester followed by SMEE. The concentrated spent wash of about 30% solids from SMEE is sent for Bio-composting to achieve ZLD.
3. For treatment of waste water streams, process condensate, spent leese, other colour effluent and cooling tower blow down etc, the factory is going to install a separate treatment plant (CPU plant).
4. The unit is using ash and yeast sludge in Bio-composting and land filling.

WHEREAS, CPCB constituted a Three-Member Committee vide office order dated 27.09.2017 having representative from CPCB, MoEF & CC and NMCG for examination and recommendation for revocation of the closure direction issued by CPCB; and

WHEREAS, The Three-Member Committee in its meeting held on 31.10.2017 examined the adequacy report of the unit and recommended that the unit may be allowed to resume operation along with following recommendations;

1. The unit shall submit the implementation status report of action taken against the recommendation of adequacy report within 15 days.
2. The unit shall submit the revalidated adequacy assessment report carried out by the institute which has conducted adequacy of assessment and submit the reports within 45 days after resuming of operation.

AND NOW THEREFORE, in view of the above observations and in exercise of powers delegated under Section 5 of the Environment (Protection) Act, 1986, **the unit (M/s Uttam Sugar Mills Ltd. (Distillery Division) Bijnor, U.P.) is allowed to resume its manufacturing operations** and shall comply with the following;

1. The drain passing through the distillery premises shall be dismantled or diverted.
2. Separate flow meter shall be installed to ascertain use of raw water/ fresh water at various unit operations so as take measures for reducing its consumption further.

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3. The unit shall also create an Environment Division to facilitate maintenance of pollution control norms by reducing trained manpower and establishing necessary laboratory facilities.
4. The unit shall install & commission Condensate Processing Unit (CPU Unit) before resumption of the Unit.
5. The unit shall restrict the storage capacity to 30 days of spent wash generation.
6. The unit shall provide copy of records of alcohol/rectified spirit production, spent wash generation (namely weak spent, strong spent wash) details of MEE operations, mass flow meter readings connected with CPCB server etc. on monthly basis (by 10th of every month) to CPCB/UPPCB.
7. The unit shall identify recipient drains/rivulets and their u/s & d/s locations in consultant with UPPCB and shall carry out monthly monitoring of the identified recipient drains at u/s & d/s location through lab recognised under Environment (Protection) Act, 1986 and shall submit the analysis report on monthly basis (by 10th of every month) to CPCB/UPPCB.
8. The unit shall use concentrated spent wash: press mud ratio of 1:1.6 and shall provide documentation support for procurement/ availability of press mud, sell of compost and compost quality on monthly basis (by 10th of every month) to CPCB/UPPCB.
9. The unit shall submit the implementation status report of action taken against the recommendation of adequacy report within 15 days and shall submit the revalidated adequacy assessment report carried out by the institute which has conducted adequacy of assessment and submit the reports within 45 days after resumption of operation.

In case of default in compliance with the above directions by the Unit (M/s Uttam Sugar Mills Ltd. (Distillery Division) Bijnor, U.P), CPCB will be constrained to initiate appropriate action against the Unit, in accordance with the provisions of the Environment (Protection) Act, 1986.

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(S. P. SINGH PARIHAR)
CHAIRMAN

Copy to:

1 **The Member Secretary**
Uttar Pradesh Pollution Control Board,
Building No. TC-12V, Vibhuthi Khand,
Gomti Nagar, Lucknow – 226 010

: With request to ensure compliance
with the directions.

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- 2 **The Advisor (CP Division)** : For Kind information, please
Ministry of Environment, Forest & C.C
Prithvi Block, Indira Paryavaran Bhawan,
Jorbagh Road, New Delhi – 110 003
- 3 **The In-charge, Zonal Office** : For follow up and ensuring compliance
Central Pollution Control Board
PICUP Bhawan, Ground Floor,
Vibhuti Khand, Gomti Nagar
Lucknow – 226 010.
- 4 **The District Magistrate,** : With request to ensure compliance of
Bijnor-Uttar Pradesh closure direction
- 5 **The Executive Engineer,** : With request to re-connect the
Urja Bhawan power supply for industrial
Paschimanchal Vidyut Vitran Nigam Ltd., operations.
Victoria Park, Meerut 250001
- 6 The In-charge, IPC-III, CPCB
- 7 The In-charge, IT Division. CPCB
- 8 Master file/Guard file, WQM II, CPCB Delhi

A. Sudhakar
(A. SUDHAKAR)
for MEMBER SECRETARY