

**Speed Post**

B-190198/NGRBA(RG)/CPCB/Distillery/27/2016-17

November 09, 2017

To,

**M/s Unnao Distilleries and Breweries Ltd.,  
Sekhpur, Unnao-Kanpur  
U.P. 209801**

13529

**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. Unnao Distilleries and Breweries Ltd., (Distillation Unit), Uttar Pradesh (hereinafter referred as 'the Unit') is involved in the manufacturing process of extra neutral alcohol and rectified spirit using molasses as raw material; and

**WHEREAS**, CPCB had issued direction on 24.02.2015 and a follow up direction on 23.04.2015, under section 18(1) (b) of Water Act, 1974 to Uttar Pradesh State Pollution Control Board for ensuring that the molasses based distilleries including yeast manufacturing units in the state of Uttar Pradesh shall achieve zero liquid discharge, as per the options specified in the direction; and

**WHEREAS**, CPCB had issued direction u/s 18(1)(b) of water Act, 1974 dated 22/12/2016 to the Uttar Pradesh Pollution Control Board for further directing the unit to discontinue all manufacturing operations and shall not be permitted to restart operations until they comply with the action plan for achieving ZLD; and

**(Contd..2/-)**

**WHEREAS**, the unit was inspected by the officials of Central Pollution Control Board (CPCB), Delhi on 7.01.2017 for the verification of compliance by the unit and following observations were made during the inspection;

1. The unit was found in operation having an installed capacity of 15 KLD.
2. Unit has 6 batch Fermentor and its distillation process is distillation without re-boiler.
3. The unit has not obtained NOC from CGWA for ground water abstraction.
4. The unit does not have functional MEE. The old MEE was out of order.
5. The unit has two Digesters of 250m<sup>3</sup>/day each capacities for spent liquor and bio gas produced from these digesters used as fuel in the boiler.
6. The unit has not made any arrangement for cover shed for the storage of bio-composting.
7. The unit has no arrangement for treatment of other effluent such as spent lees, floor washing, fermentor wash etc.
8. The unit has not provided ground water monitoring network around the bio-compost yard as per bio-composting protocol.
9. The unit has not maintained proper press mud to spent wash ratio in compost making. Excessive spray of liquid (RO rejects) was noticed which is against the protocol.
10. The unit has not obtained registration from ministry of Agriculture for certification of its bio-compost quality.
11. The unit is having 3 lagoons with capacity of 300 m<sup>3</sup> (2 no.) and 155 m<sup>3</sup> (3 no.)
12. The unit practices Bio-composting over an area of 1.6 acres using press mud and reject of RO.

**AND WHEREAS**, CPCB issued closure direction dated, 21.03.2017 under section 5 of E(P)A, 1986; and

**WHEREAS**, the unit reply vide letter dated 12.04.2017 was examined; and

**WHEREAS**, the unit was again inspected by the officials of CPCB dated 26.5.2017 for the compliance verification and following observation were made;

1. The unit has six-batch fermentor and observed that the unit has not installed re-boiler its distillation process. The unit has placed order for installation of re-boiler (copy enclosed).
2. The unit has submitted application to CGWA on dated 12.04.2017 for NOC (copy enclosed).
3. The MEE was non-operational. As per the information by the unit existing MEE is modifying but team could not find any modification and alteration in the existing MEE.
4. The unit has installed two digesters but the unit was non-operational so the utilization of the biogas is not verified.
5. The unit has not covered shed for storage of finished bio-compost at compost yard.
6. The unit has not installed separate treatment plant to treat spent lees, floor washing, fermentor wash and not stored in other effluent storage tank.
7. The unit has not installed ground water monitoring network around the compost yard.
8. The bio-composting process was found non-operational.

**(Contd..3/-)**

9. The unit has applied for the Ministry of agriculture for certification of its bio-enriched organic manure quality (copy enclosed).
10. The unit have three lagoon and stored 250 KL spent wash in the lagoon.

**AND WHEREAS,** CPCB issued closure direction dated 25.07.2017 Under Section 5 of the Environment (Protection) Act, 1986, to the unit to comply of the following directions;

1. The unit shall comply with the CPCB's directions dated 21.3.2017.
2. The unit shall submit following reports duly validated by reputed institutions like National Sugar Institute, Kanpur, Vasantdada Sugar Institute, Pune and IITs to CPCB and UPPCB within 60 days:
  - a) Assessment of the manufacturing technology for spent wash generation and adequacy assessment of ZLD system comprising of Biomethanation, RO, MEE, composting/incineration system and steam availability, etc.
  - b) Water audit and mass balance reports to establish spent wash generation rate,
  - c) Action Plans to achieve Zero Liquid Discharge (ZLD),
  - d) To restrict lined effluent storage capacity to 30 days, and
  - e) 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.
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 10<sup>th</sup> of every month) to CPCB/UPPCB.
6. The unit shall seek permission from CPCB before starting its manufacturing operations.

**WHEREAS,** unit has submitted adequacy report prepared by VSI, Pune and as per the adequacy report following observations are made;

1. The unit has installed reboiler to analyser column for indirect heating of wash being boiled in the analyser column.
2. The unit has two bio-digesters each of 4000 m<sup>3</sup> volume are adequate for bio-methanation of raw spent wash for 15 KLPD plant.
3. The SMEE plant is not in operation from the year 2007. The SMEE plant should be made operational at the time of restart of distillery operations.

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4. Based on the conc. BMSW discharge, bio-compost yard area should be increased from existing 1.60 acres to 2.30 acres for operation of bio-composting process for 270 days.
5. After commissioning of analyser column reboiler and SMEE plant as well as addition of about 0.50 acres of impervious bio-compost yard (as per CREP norms) the performance of the total effluent treatment plant has to be evaluated.

**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 committee has recommended to allow the unit to operate at reduced capacity of 13 KLD for 60 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.
3. The unit shall ensure the connectivity of mass flow meter to CPCB server.
4. The unit shall submit the ground water quality analysis report of nearby areas on quarterly basis in coordination with UPPCB.

**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. Unnao Distilleries and Breweries Ltd., (Distillation Unit) is allowed to resume its manufacturing operations and shall comply with the following;**

1. The unit is allowed to operate for 60 days at a restricted capacity of 13 KLD against of installed capacity of 15 KLD and within this period the unit shall complete the installation and connectivity of the mass flow meter to CPCB.
2. The unit shall submit ground water quality analysis report of the nearby areas on quarterly basis in coordination with UPPCB.
3. The existing PMC to RO reject mixing ratio of 1:3.0 should be brought down to 1:1.6 for bio-composting of concentrated BMSW of 30° brix.
4. Based on the conc. BMSW discharge, bio-compost yard area should be increased from existing 1.60 acres to 2.30 acres for operation of bio-composting process for 270 days.
5. After commissioning of analyser column reboiler and SMEE plant as well as addition of about 0.50 acres of impervious bio-compost yard (as per CREP norms) the performance of the total effluent treatment plant shall be evaluated by the institute which has conducted adequacy assessment of the unit.

**(Contd..5/-)**

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 10<sup>th</sup> 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 10<sup>th</sup> 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 10<sup>th</sup> 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 or any other exigencies, CPCB will be constrained to initiate further stringent action against the Unit(M/sUnnao Distilleries and Breweries Ltd.,(Distillation Unit), in accordance with the provisions of the Environment (Protection) Act, 1986, without any further notice.

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

Copy to:

1. **The Chairman**  
Uttar Pradesh Pollution Control Board,  
Building No. TC-12V, Vibhuthi Khand,  
Gomti Nagar, Lucknow – 226 010  
:Withrequest to ensure compliance  
of the directions.
2. **The Advisor (CP Division)**  
Ministry of Environment, Forest & C.C  
Prithvi Block, Indira Paryavaran Bhawan,  
Jorbagh Road, New Delhi – 110 003  
: For kind information please

**(Contd..6/-)**

- 3 **Regional Director**  
Central Pollution Control Board  
PICUP Bhawan, Ground Floor, VibhutiKhand,  
Gomti Nagar, Lucknow – 226 010 :For follow up and ensuring  
compliance
- 4 **The District Magistrate,**  
Unnao–Uttar Pradesh :With request to ensure compliance of  
thedirection
- 5 **The Executive Engineer/SE**  
Madhyanchal VidyutVitrان Nigam Ltd.,  
Head office 4A, Gokhele Marg  
Lucknow-226001 :With request to restore the power  
supply of the unit.
- 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