

Speed Post

B-190198/NGRBA(RG)/CPCB/Distillery/33/2016-17

May 21st, 2018
May 23rd

To,

**M/s Superior Industries Ltd.,
(Distillery Division),
C.B. Ganj, Bareilly, U.P**

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 Superior Industries Ltd. (Distillery Division), C.B. Ganj, Bareilly (hereinafter referred as 'the Unit') is involved in the process of extra neutral alcohol and rectified spirit using molasses as raw material and;

WHEREAS, the unit was issued a modified direction under Section 5 of Environment Protection Act, 1986 dated 07-06-2013, to restrict the production capacity to 36 KLPD due to inadequate treatment facility of spent wash; and.

WHEREAS, the unit was inspected by the officials of Central Pollution Control Board (CPCB), Delhi on 10.01.2017 and during inspection, the unit was found closed; and

WHEREAS, CPCB issued direction under Section 5 of Environment Protection Act, 1986 dated 06-06-2017 to the unit to comply with the following;

(Contd..2/-)

1. 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.
2. 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.
3. 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.
4. 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.

AND WHEREAS, unit submitted adequacy assessment report prepared by VSI, Pune, vide letter dated 27.09.2017 and as per the adequacy assessment, following observations are made;

1. The unit has adopted batch fermentation with atmospheric distillation. The spent wash generation is 9.02 l/l of alcohol.
2. The unit's ETP including the biomethanation plant, RO plant, MEE plant, biocomposting yard area and CPU are all of adequate capacity to treat spent wash generated when operated at 45 KLPD production capacity.
3. The unit has received certification from Ministry of Agriculture for the compost quality.
4. Mass flow meter for measuring the raw spent wash and concentrate from SMEE have been ordered.
5. During rainy season, small quantity of spent wash should be regularly fed to digester to keep digester in active condition.
6. Mixed feed to CPU should be analyzed for COD, TS, TDS, VA and pH before and after treatment for its suitability for use in process and non-process applications.

(Contd..3/-)

7. It is advisable to take proper care of green belt surrounding the biocompost yard.
8. It is also advisable to implement rain water harvesting programme as suggested by CGWA.
9. Installation of piezometers and rain water harvesting programme should be informed to State and Central Pollution Control Board.

AND WHEREAS, the unit was issued Show Cause Notice dated 02.01.2018 and was directed to implement the following measures besides other pollution control measures:

1. To complete the installation of mass flow meters with totalizer at inlet of ROs/MEE, outlet of MEE and to establish connectivity 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 to CPCB & UPPCB servers within 15 days.
2. To provide names of the recipient drain and its u/s & d/s locations.
3. To carry out monthly monitoring of the identified recipient drains at u/s & d/s location through lab recognized under Environment (Protection) Act, 1986 and to submit the analysis report on monthly basis (by 10th of every month) to CPCB/UPPCB.
4. To 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.
5. To use concentrated spent wash: press mud ratio of 1:1.6 and to provide documentary support for procurement/ availability of press mud, sale of compost and compost quality on monthly basis (by 10th of every month) to CPCB/UPPCB.
6. To feed small quantity of spent wash to biodigester to keep the digester active during rainy season as per recommendation in the adequacy report.
7. To analyze the mixed feed to CPU for COD, TS, TDS, VA and pH before and after treatment, to ensure its suitability for use in process and non-process applications, as per adequacy report recommendation.
8. To take proper care of green belt surrounding the biocompost yard.
9. To implement rain water harvesting programme as suggested by CGWA and to inform State and Central Pollution Control Board upon installation of piezometers and rain water harvesting programme.
10. To submit the implementation status report of action taken against the recommendation of adequacy report within 15 days and to 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.

(Contd..4/-)

AND WHEREAS, the unit's reply vide letter dated 20.01.2018 was examined; and

WHEREAS, CPCB issued revoke direction dated 20.04.2018, under Section 5 of the Environment (Protection) Act, 1986 to the unit; and

WHEREAS, the unit's representation dated 12.04.2018 was examined and following observations made:

1. The unit has requested for revocation of restriction on production capacity so as to operate at the consented capacity of 45 KLPD.
2. The adequacy report indicates that the unit has adequate ZLD system, comprising of Biomethanation followed by Reverse Osmosis, Standalone Multiple Effect Evaporation and finally Biocomposting, for treatment of spent wash generated at production capacity of 45 KLPD.
3. The unit has installed SETP (Small effluent treatment plant)/ CPU (Condensate Polishing Unit) of capacity 600 KLPD for treatment of RO permeates, MEE condensate and blow downs for utilization in distillation process and cooling tower make up.
4. The unit has additionally placed order for installation of Incineration/Slop fired boiler of capacity 35 TPH at 400 °C.
5. The unit has an area of 15 acres dedicated to biocomposting, out of which 4 acres of land area is covered for biocomposting during rainy season. The machinery available for composting is adequate.

AND 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, the unit is directed to operate as per the consent condition and shall also comply with the following:

1. The unit may operate at installed capacity of 45 KLPD after seeking consent from UPPCB under Water (Prevention and Control of Pollution) Act, 1974.
2. The unit shall submit 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 in the prescribed format.
3. The unit 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 submit the analysis report on monthly basis (by 10th of every month) to CPCB/UPPCB.
4. The unit shall provide documentary support for procurement/ availability of press mud, sale of compost and compost quality on monthly basis (by 10th of every month) to CPCB/UPPCB in the prescribed format.
5. The unit shall implement rain water harvesting programme as suggested by CGWA and inform State and Central Pollution Control Board upon installation of rain water harvesting programme.


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In case of default in compliance with the above directions or any other exigencies, CPCB will be constrained to initiate further action against the 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** : For kind information, please.
Uttar Pradesh Pollution Control Board,
Building No. TC-12 V, Vibhuti Khand
Gomti Nagar, Lucknow-226.010
- 2. The 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
- 3. The Regional Director** : For kind information, please.
Regional Directorate
Central Pollution Control Board
PICUP Bhawan, Ground Floor,
Vibhuti Khand, Gomti Nagar,
Lucknow – 226 010.
- 4. The In-charge, IT Division, CPCB**
- 5. Master file/Guard file RG Division**


(A Sudhakar)
MEMBER SECRETARY