



केन्द्रीय प्रदूषण नियंत्रण बोर्ड
CENTRAL POLLUTION CONTROL BOARD
(पर्यावरण एवं वन मंत्रालय, भारत सरकार)
MINISTRY OF ENVIRONMENT & FORESTS, GOVT. OF INDIA)

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February 24, 2015

To,

The Chairman
Uttar Pradesh Pollution Control Board
Building No. TC-12V,
Vibhuti Khand, Gomti Nagar,
Lucknow-226010

Direction under section 18(1) (b) of the Water (Prevention & Control of Pollution) Act, 1974
to ensure zero liquid discharge from distilleries

WHEREAS, among others, under Section 17 of the Water (Prevention and Control of Pollution) Act, 1974, one of the functions of the State Pollution Control Board (SPCB)/Pollution Control Committee (PCC), constituted under the Water (Prevention & Control of Pollution) Act, 1974 is to plan a comprehensive programme for prevention, control and abatement of pollution of streams and wells located in the State/UT and to secure the execution thereof; and

WHEREAS, the Central Government has notified the standards for discharge of environmental pollution from various categories of industries under the Environment (Protection) Act, 1986 and the Rules framed there under; and

WHEREAS, the CPCB and SPCBs have been pursuing the polluting 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 there under; and

WHEREAS, the SPCBs/PCCs can stipulate stringent standards for discharge of environmental pollution from various categories of industries than those notified by the Central Government, under the Environment (Protection) Act, 1986 and Rules framed there under; and

WHEREAS, various industrial units including distilleries located in the state of Uttar Pradesh discharge effluent in the rivers Kosi, Dhela, Ramganga, Kali and other tributaries and drains of the State, in the catchment area of Ganga basin, which adversely affect the water quality of river Ganga; and

WHEREAS, CPCB issued direction dated 10.01.2011 under section 18 (1) (b) of the Water Act 1974 to Uttar Pradesh Pollution Control Board (UPPCB) for ensuring the compliance of the measure given below:

"Distillery and Fermentation industries shall be directed to submit a time bound action plan within 30 days to adopt emerging technologies namely Membrane Filtration/Re-boiler/Evaporation/Concentration followed by incineration of concentrated spent wash in boiler (for power generation) or co-processing in cement kilns, thermal power plants and steel plants to achieve zero effluent discharge."

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WHEREAS, under the National Ganga River Basin Authority (NGRBA) It has been decided to address the issue of pollution of river Ganga in a comprehensive and time bound manner; and

WHEREAS, the Hon'ble Prime Minister's Office reviewed the progress made in the activities of the NGRBA on 06th January, 2015 and has identified thrust areas, including ensuring zero liquid discharge from feasible industrial sectors; and

Now therefore, in view of the above and in exercise of the powers conferred under section 18 (1) (b) of the Water (Prevention and Control of Pollution) Act, 1974, you are hereby directed to take adequate steps *within 10 days of receipt of this direction* to implement the following directions in the distilleries in the state of Uttar Pradesh to ensure achievement of Zero Liquid Discharge;

1. All the molasses based distilleries including yeast manufacturing units in the state of U.P shall be directed to achieve zero liquid discharge of effluent by following either of the two routes as specified below;
 - a. Installing systems for Solid separation for reduction in volume of spent wash and water conservation by using appropriate technology such as R.O, by *September 30, 2015*, followed by evaporation- concentration and incineration, using appropriate technology such as MEE and Incineration boiler by *March 31, 2016*.
 - b. Adopting advance process technologies (continuous fermentation, multi pressure distillation, integrated evaporation, etc) for reduction of spent wash generation to 6-8 KL/KL of alcohol produced, by *March 31, 2016*, followed by evaporation- concentration and incineration, using appropriate technology such as MEE and Incineration boiler by *September 30, 2016*.
2. Industries those have already adopted advance process technologies (continuous fermentation, multi pressure distillation, integrated evaporation, etc) shall be directed to set up evaporation- concentration and incineration system by *March 31, 2016*.
3. Till such time the industries comply with the installation of incineration system (but not later than *31.03.2016* or *30.09.2016*, as the case maybe, indicated in Point No. 1 & 2 above), they shall be allowed to utilise the spent wash for manufacturing bio-compost within their premises, with proper labelling and marketing of the finished compost in sealed bags, bearing the name and seal of the manufacturer industry and the composition of the bio- compost. Industries shall not be allowed to sale compost in open tractors/trolleys.
4. The systems installed by Industries shall have adequate capacities to treat the entire spent wash generated, so as to achieve Zero Liquid discharge within the period mentioned above and Time bound commitment and action plan shall be obtained from individual units within one month, i.e. before *31st March, 2015*.
5. The separated water from solid separation system such as R.O and condensate from evaporation-concentration system such as MEE shall be reutilised in the process/utility. If required, separated water and condensate may be treated before reutilisation.
6. Industries shall be directed to install measuring devices (water/flow meters) at required locations (raw water consumption, solid separation system: feed, permeate and reject, evaporation-concentration system: feed, concentrate and condensate, water reused in the process & concentrate utilised in incineration) to record the water balance by *March 31, 2016*.
7. Industries shall display the water balance and quantities of concentrated spent wash disposed in incineration system (incineration boiler/equivalent technology) and report the reduction in raw water consumption as a result of adopting these systems. Industry shall also install web cameras at each strategic location for monitoring purpose.

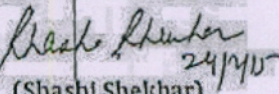
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-3-

8. The storage facility provided for spent wash shall be properly lined and made impermeable and the storage capacity at any stage shall not exceed 07 days equivalent of production and excess storage facilities beyond this shall be levelled or dismantled by 31.03.2016 or 30.09.2016, as the case maybe, indicated in Point No. 1 & 2.
9. Other effluent streams apart from spent wash including spent lees, plant washings, leakages, bottle washings, boiler blow down, etc shall be treated properly in a separate ETP or mixed with the feed for R.O/MEE and shall be reused/utilised in the process/utilities suitably by **March 31, 2016**.
10. The 'Consent to operate' issued/to be issued to all the distilleries in the State shall be suitably modified within 15 days, incorporating the above conditions, and linking the validity of the 'Consent to Operate' with the compliance of the directions. The Consent to operate issued to the distilleries shall *stand automatically withdrawn* by the deadline as specified below:
 - a. Such of those industries which opt for installing solid separation system:
 - i. **September 30, 2015**- failure to complete the installation of solid separation system (R.O, etc).
 - ii. **March 31, 2016**-failure to install evaporation-concentration and incineration, using appropriate technology such as MEE and incineration boiler.
 - b. Such of those industries which opt for adoption of advance process technologies:
 - i. **March 31, 2016** - failure to adopt advance process technologies (continuous fermentation, multi pressure distillation, integrated evaporation, etc), to reduce spent wash generation to 6-8KL/KL.
 - ii. **September 30, 2016**-failure to install evaporation-concentration and incineration, using appropriate technology such as MEE and incineration boiler.
 - c. Such of those industries which have already adopted advance process technologies:
 - i. **March 31, 2016** - failure to install evaporation-concentration and incineration, using appropriate technology such as MEE and incineration boiler.
11. UPPCB shall monitor the progress made by distilleries and *in case of non compliance to the stipulated time schedule, industries shall be directed to close down the manufacturing operations.*
12. The copies of directions, correspondences & action plan submitted by the industries with time line for implementation of above directions shall be endorsed to CPCB along with the updated list of distilleries in your state.
13. The present direction shall supersede all the previous directions from CPCB related to Zero Liquid discharge in the distilleries.

It may be noted, as you are aware, that such a commitment for achieving zero liquid discharge by distilleries in the Ganga Basin is being submitted from time to time before the Hon'ble Supreme Court of India and the Hon'ble NGT, Delhi in the related litigations pending before the Hon'ble Courts.

The actions taken by Uttar Pradesh Pollution Control Board for complying with this direction shall be intimated to this office within 10 working days.


(Shashi Shekhar)
CHAIRMAN