

The following draft notification, which the Central Government proposes to issue under the Environment (Protection) Act, 1986 (29 of 1986), is hereby published for the information of public likely to be affected thereby; and the notice is hereby given that the said draft notification shall be taken into consideration on or after the expiry of a period of thirty days from the date on which this draft has been made available to public through this website. The comments may be sent to MS, CPCB and Mr. Dinesh Runiwal, DD (CP): adaba.cpcb@nic.in and d.runiwal@gov.in

[To be published in the Gazette of India, Extraordinary, Part II, Section 3, Sub-section (i)]
GOVERNMENT OF INDIA
MINISTRY OF ENVIRONMENT, FOREST AND CLIMATE CHANGE
NOTIFICATION
New Delhi, 2016

G.S.R..... (E). – In exercise of powers conferred by Sections 6 and 25 of the Environment (Protection) Act, 1986 (29 of 1986), the Central Government hereby makes the following rules further to amend the Environment (Protection) Rules, 1986, Namely :-

- (1) These rules may be called the Environment (Protection) Amendment Rules, 2016.
- (2) They shall come into force on the date of their publication in the official Gazette.

2. In the Environment (Protection) Rules, 1986 in schedule-I,

- (i) in existing serial number 15 for the existing entries and entries relating thereto, the following serial number and entries shall be added and substituted, namely:-

15. Fermentation Industry (Distilleries, Malteries and Breweries)

(A) Effluent Standards

1. Molasses based distilleries:

- (a) All molasses based distilleries including yeast manufacturing units shall achieve zero liquid discharge (ZLD) by;
 - Concentrating and incinerating the spent wash. Raw/Bio-methanated spent wash shall be concentrated by (Reverse Osmosis) RO/ (Multi Effect Evaporators) MEE(minimum 55% solids) and incinerated in boiler; or Concentrating and utilising the spent wash in bio-composting with press mud. Bio-methanated spent wash to be concentrated by (Multi Effect Evaporators) MEE and/or (Reverse Osmosis) RO (minimum 40% by volume with 30% solids) and to be converted into bio compost by mixing with press mud.
 - Other process / non process effluents, (Reverse Osmosis) RO permeate, (Multi Effect Evaporators) MEE condensate etc, shall be suitably treated and reused in the process; and shall not be discharged.
- (b) New stand alone distilleries (not having sugar unit) or increase in production of stand alone distilleries based on molasses shall achieve zero liquid discharge by

concentrating and incinerating the spent wash. Raw / bio-methanated spent wash to be concentrated by (Multi Effect Evaporators) MEE and/ or (Reverse Osmosis) RO (minimum 55% solids) and incinerated in boiler.

Other process/ non process effluents, (Reverse Osmosis) RO permeate, (Multi Effect Evaporators) MEE condensate etc, shall be suitably treated and reused in the process; and shall not be discharged.

2. Grain based distilleries:

All grain based distilleries shall achieve zero liquid discharge by decantation, concentration by evaporation and drying. The distilleries shall follow the below route for achieving ZLD.

- The whole stillage shall be decanted, thin stillage shall be evaporated and wet cake and syrup shall be mixed and dried in a dryer and converted into Distillers' Dried Grains with Solubles (DDGS)
- The moisture content of DDGS should not be more than 10 %.
- Other non process effluents, (Reverse Osmosis) RO permeate, (Multi Effect Evaporators) MEE condensate etc, shall be suitably treated and reused in the process; and shall not be discharged
- Industries those shall operate on both grain and molasses shall have both the systems for achieving ZLD.

3. Any other process/ industry producing alcohol:

Any other process / industry producing alcohol shall achieve zero liquid discharge by adopting suitable treatment methods.

4. Breweries, Malteries and Stand alone bottling units:

All Breweries, Malteries and Stand alone bottling units shall achieve the following discharge standards by giving suitable treatment for their effluent.

S. No.	Parameter	Standard (Concentration not to exceed mg/lit except for pH and colour & odour)
1.	pH	6.5-8.5
2.	Colour and odour	All efforts should be made to remove colour and unpleasant odour as far as practicable
3.	Suspended solids	100
4.	BOD (3 days at 27°C]	30
	Disposal in to inland surface water or river / streams	
	Disposal on land or for irrigation	

Those distilleries who want to adopt any alternative technology equivalent to concentration and incineration such as spray drier, co processing, etc shall get it approved from respective State Pollution Control Boards.

(B) Emission Standard:

The spent wash incineration boiler shall achieve the emission norm of 50 mg/Nm³ for Particulate matter Emissions.

[F. NO. Q-15017/20/2015-CPW]

(Dr. Rashid Hasan)
Advisor

Note- The principal rules were published in the Gazette of India, Extraordinary, Part II, Section 3, Sub-section (i), *vide* number S.O. 844 (E), dated the 19th November, 1986 and subsequently amended *vide* the following notifications, namely:-

S.O. 433 (E), dated the 18th April 1987; G.S.R. 176(E), dated the 2nd April, 1996; G.S.R. 97 (E), dated the 18th February, 2009; G.S.R. 149 (E), dated the 4th March , 2009; G.S.R. 543(E), dated the 22nd July, 2009; G.S.R. 739 (E), dated the 9th September, 2010; G.S.R. 809(E), dated, the 4th October, 2010, G.S.R. 215 (E), dated the 15th March, 2011; G.S.R. 221(E), dated the 18th March, 2011; G.S.R. 354 (E), dated the 2nd May, 2011; G.S.R. 424 (E), dated the 1st June, 2011; G.S.R. 446 (E), dated the 13th June, 2011; G.S.R. 152 (E), dated the 16th March, 2012; G.S.R. 266(E), dated the 30th March, 2012; and G.S.R. 277 (E), dated the 31st March, 2012; and G.S.R. 820(E), dated the 9th November, 2012; G.S.R. 176 (E), dated the 18th March, 2013; G.S.R. 535(E), dated the 7th August, 2013; G.S.R. 771(E), dated the 11th December, 2013; G.S.R. 2(E), dated the 2nd January, 2014; G.S.R. 229 (E), dated the 28th March, 2014; G.S.R. 232(E), dated the 31st March, 2014; G.S.R. 325(E), dated the 07th May, 2014, G.S.R. 612, (E), dated the 25th August 2014; G.S.R. 789(E), dated the 11th November 2014; S.O. 3305(E), dated the 7th December, 2015; S.O.4(E), dated 1st January 2016; G.S.R. 35(E), dated 14th January 2016 and lastly amended *vide* notification G.S.R. 281 (E), dated 7th March, 2016.