

**Speed Post**

B-190198/NGRBA(RG)/CPCB/Distillery/8/2016-17

Jan 18, 2018

To,

**M/s Jain Distillery**  
**Nagina Road,**  
**Dist. Bijnor -246701, U.P.**

**SHOW CAUSE NOTICE 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 there under and also to meet the consent conditions granted by State Pollution Control Board (SPCBs) / Pollution Control Committees (PCCs); and

**WHEREAS**, M/s Jain Distillery, U.P (hereinafter referred as 'the Unit') is involved in the process of extra neutral alcohol and rectified spirit using molasses as raw material; and

**WHEREAS**, CPCB issued direction dated 29-06-16 under section 18(1)(b) of water Act, 1974 to UPPCB to take prescribed steps immediately to resolve the issue of discharge of colored effluent in the choiyya drain; and

**WHEREAS**, UPPCB issued directions dated 02-09-2016 under section 33(A) of water Act, 1974, in compliance of CPCB directions dated 29/9/2016 to the unit for compliance of following direction:

1. M/s Jain Distillery, 9 K.M., Nagina Road, Bijnor are directed to collectively take steps for removing the colour in the drain and also to remove the deposited sludge in the bottom bed of the drain for preventing leaching out of colour in future.

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

**M/s Jain Distillery Nagina Road, Dist. Bijnor**

2. It shall be ensured that M/s Jain Distillery, 9 K.M., Nagina Road, Bijnor shall comply the consent conditions and that coloured effluent shall not be discharged into Choiyya drain at any point of time.
3. A written undertaking on affidavit in this regard shall be submitted by the industry in particular and in the event of observation of coloured effluent near the downstream of Choiyya drain, the industry shall be held solely responsible and closed down immediately without any notice.

**AND WHEREAS**, the unit was inspected by the officials of Central Pollution Control Board (CPCB) dated 19.12.2016 and following observations made;

1. No bypass/discharge of effluent outside the factory premises was noticed.
2. The unit has not provided the connectivity of flow meter to CPCB server.

**AND WHEREAS**, the unit has provided connectivity to CPCB server, which is verified by CPCB; and

**WHEREAS**, the unit has submitted the adequacy report dated 08.05.2017. On the basis of assessment report provided by M/s., Jain Distillery, following are the recommendations and observations;

1. The unit shall report the alcohol % (v/v) wash in house logbook.
2. The unit shall provide performance data of RO plant.
3. Installation of modern technology (CPU) for treatment and recycling of no-process effluent should have been recommended.
4. If bio-methanated spentwash of 8-9<sup>0</sup> brix is concentrated from approximately 320 M<sup>3</sup>/day to 51 M<sup>3</sup>/day as mentioned in the report, then the final brix would much higher than that reported (35<sup>0</sup> Brix) in the report. Roughly, the brix of 51 M<sup>3</sup>/day of concentrated spent wash would go above 50<sup>0</sup> brix. How such concentrated spent-wash can be composted? Therefore, the figures given in the report are confusing and there seems to be lot of miscalculation.
5. Generally bio-composting of concentrated spent wash is carried at about 30<sup>0</sup> brix. Bio-composting of concentrated spent wash above 30<sup>0</sup> brix becomes really difficult. Even with 30<sup>0</sup> brix concentrated spent wash the spent-wash to press mud cake (PMC) ratio comes down to 1.5:1.0 with bio-composting cycle of 60 days. Therefore, the assumption taken in the report of 2.5:1.0 of concentrated spent-wash to PMC is not correct.
6. As the unit is standalone distillery (not attached to a sugar mill). The unit shall provide some authentic proof of purchasing PMC from nearby sugar mills.
7. Water balance given under section 6 is vague and not correct.
8. No suggestions are given for up-gradation or improvement.

(Contd..3/-)

**M/s Jain Distillery Nagina Road, Dist. Bijnor**

9. Biogas generation in the biogas plant logbook is shown in the range of 16,890 to 17,290
10. M<sup>3</sup>/day whereas in the in the plant performance data of the report it is shown in between 22000-24,000 M<sup>3</sup>/day.

**WHEREAS**, CPCB issued direction dated 26-07-2017, to the unit to comply with the following;

1. In no case , unit shall dispose any of its effluent outside the premises & will operate on ZLD system, for which 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 generation of spent wash 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 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 monitor the drain and submit the analysis report to UPPCB and 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 10<sup>th</sup> of every month) to CPCB/UPPCB.

**WHEREAS**, unit submitted adequacy assessment report prepared by VSI, Pune on the 19.08.2017 and as per the adequacy assessment report, following observations are made;

1. The unit is operating in fed batch mode of fermentation followed by advanced MPR distillation process. It is having adequate capacity of fermentation and distillation.
2. Distillation process is based on advanced MPR distillation to produce RS & ENA.
3. Biogas plant capacity is adequate for treatment of spent wash.
4. The unit has connected its online monitoring system to UPPCB and CPCB, However, mass flow meters for multi effect spent wash evaporation feed and concentrated spent wash are not yet be installed.
5. The storage capacity of spent wash impervious tank maintained by unit is as per capacity restricted by UPPCB.
6. The concentration of spent wash generated after evaporation in MEE plant is 72 KLPD with 35.52% solids.

(Contd..4/)

7. The performance of bio-composting unit can be improved further. The PMC: SW ratio was 1:1.63.
8. The prepared bio-compost lying on compost yard may be removed before the start of rainy season.
9. It is advisable to take care of green belt surrounding the bio-compost yard.
10. It is advisable to implement rain water harvesting system inside the distillery premises.
11. The steam economy of MEE plant can be improved.
12. It has installed mass flow meters at inlet and outlet of MEE.
13. The unit has identified the recipient drain to be Choiya drain and is monitoring the samples from u/s and d/s locations of the drain.
14. It has provided necessary documents supporting the procurement of press mud, its consumption, bio-compost production and sale of the compost.

**AND WHEREAS**, the unit has not complied with the following CPCB direction issued dated July 26, 2017;

1. The unit has not provided the 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.
2. The unit has not carried out monitoring of the identified recipient drain named Choiya drain at u/s & d/s location through Environment Protection Act, 1986 recognised lab and shall submit the analysis report on monthly basis ( by 10<sup>th</sup> of every month) to CPCB/UPPCB.
3. The unit has not submit the 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.

**AND WHEREAS**, the unit (M/s Jain Distillery, U.P is required to implement following measures besides other pollution control measures;

1. To establish connectivity of mass flow meter at the inlet and outlet of MEE within 15 days from the date of issuance of direction.
2. The concentration of spent wash generation should be 85 KLPD and below 30% solids after evaporation in MEE plant instead of 72 KLPD and 35.52% solids.
3. To improve steam economy of MEE plant further.
4. To remove prepared bio-compost lying on compost yard before the start of rainy season.
5. To improve green belt surrounding the bio-compost yard.
6. 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 10<sup>th</sup> of every month) to CPCB/UPPCB in the prescribed format (enclosed).

(Contd..5/-)

**M/s Jain Distillery Nagina Road, Dist. Bijnor**

7. To carry out monthly monitoring of the identified recipient drains at u/s & d/s location through EPA recognised lab under Environment (Protection) Act, 1986 and to submit the analysis report on monthly basis (by 10<sup>th</sup> of every month) to CPCB/UPPCB in the prescribed format (enclosed).
8. To use concentrated spent wash: press mud ratio of 1:1.6 and to 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 in the prescribed format (enclosed).
9. 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.

**AND NOW, THEREFORE**, in view of the unit's non-compliance to CPCB directions dated 26, July 2017, and in exercise of the powers delegated to the Chairman, CPCB under section 5 of the Environment (Protection) Act, 1986, notice is served herewith to **show cause why the environmental compensation should not be imposed to the unit** (M/s. Jain Distillery, Nagina Road) **and why the unit should not be closed down** until all the necessary pollution control measures are planned and implemented so as to comply with the directions dated 26 July 2017 to the satisfaction of CPCB.

You are hereby given an opportunity to file your objections (if any) to the above proposed direction within 15 days from the receipt of this notice, failing which appropriate action shall be taken against the Unit without giving any further notice, in accordance with provisions of the Environment (Protection) Act, 1986.

/  
**(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

:With request to ensure that the unit complies with the directions.

(Contd..6/-)

**M/s Jain Distillery Nagina Road, Dist. Bijnor**

**2. The Incharge (CP Division)**

Ministry of Environment, Forest & C.C  
Prithvi Block, Indira Paryavaran Bhawan,  
Jorbagh Road, New Delhi – 110 003

: For Kind information, please.

**3. The Regional Director**

Regional Directorate  
Central Pollution Control Board  
PICUP Bhawan, Ground Floor,  
Vibhuti Khand, Gomti Nagar,  
Lucknow – 226 010.

: For follow up and ensuring  
compliance

**4. The In-charge, IT Division, CPCB**

**5. Master file/Guard file WQM-II, CPCB Delhi**



**(A. SUDHAKAR)**  
MEMBER SECRETARY

**Central Pollution Control Board Format for evaluation of Distillery ETP performance**

Format-1 For Distillery

Address:

Capacity of the distillery: \_\_\_\_\_ KLPD, \_\_\_\_\_ Lac lit/annum

Distillery ETP Configuration: ----- + ----- + ----- + -----

Spent wash concentration section											
Date	Total alcohol production	Raw Spent wash generation as per online mass flow meter		Spent wash generation per liter of alcohol produced	Raw Spent wash Total Solids %	Cumulative Raw Spent wash generation as per online mass flow meter	Conc. Spent wash generation as per online mass flow meter		Conc. Spent wash Total Solids %	Cumulative Conc. Spent wash generation as per online mass flow	Condensate quantity generated
		MT/Hr	MT/Day				MT/Lit	MT/Hr			
	Lits/day			Lit/Lit	%	MT	MT/Hr	MT/day	%	MT	MT/Day

Note- Where per day data is not available, distillery can provide per month or per two months data





## Central Pollution Control Board Format for evaluation of Distillery ETP performance

### Format-2 For Distillery ( Bio-composting/Incineration section)

Name of the distillery:

Address:

Capacity of the distillery: \_\_\_\_\_ KLPD, \_\_\_\_\_ Lac lit/annum

Distillery ETP Configuration: ----- + ----- + ----- + -----

Date	BIOCOMPOSTING															INCINERATION BOILER										
	Press Mud Cake (PMC) Procured	Press Mud Cake (PMC) consumption		Concentrated Spent wash consumption			Concentrated spent wash to PMC ratio achieved	Distance travelled by aerotiller machine:			Bio-compost Produced	Quality of Bio-compost				Bio-compost Sold	Slop (Concentrated spentwash) feed to the incinerator		Subsidari fuel feed to the incinerator		Steam Generation from incineration boiler					
		MT	MT/ Windrow	MT/ Month	Totalizer Reading	MT/ Windrow		MT/ Month	M-1 Km/day	M-2 Km/day		M-3 Km/day	MT/ Annum	N (%)	P (%)		K (%)	Moisture (%)	MT/ Annum	MT/hr	Totaliser reading, MT	MT/hr	Totaliser reading, MT	MT/hr	Totaliser reading, MT	

**Note-** Where per day data is not available, distillery can provide per month or per two months data. Fill-in only applicable data