

Speed Post

B-190198/NGRBA(RG)/CPCB/Distillery/7/2016-17

Jan 02, 2017

To,

M/s Dwarikesh Sugar Industries Ltd., (Distillery Unit)  
Dwarikesh Nagar-246762,  
Distt. Bijnor (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 thereunder and also to meet the consent conditions granted by State Pollution Control Board (SPCBs) / Pollution Control Committees (PCCs); and

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

**WHEREAS**, CPCB issued letter dated 24.03.17 to the unit asking to assess the ground water quality at the composting yard premises and to submit a detailed ground water study report including measures taken for rectification of ground water contamination.

**WHEREAS**, CPCB issued direction dated 12 June, 2017 under section 5 of Environment Protection Act, 1986 to the unit to comply with the following;

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 UPCCB within 60 days:

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

M/s Dwarikesh Sugar Industries Ltd., (Distillery Unit), Bijnor (U.P.)

- 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 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 10<sup>th</sup> of every month) to CPCB/UPPCB.
  5. The unit shall carry out ground water quality assessment study of the areas near the composting yard premises from reputed institution and submit the report including measures taken for rectification of ground water contamination within 60 days.

**WHEREAS**, the unit submitted adequacy assessment report on 11.09.2017 prepared by NSI, Kanpur and as per the adequacy assessment the following observations are made;

1. The unit has adopted Continuous Fermentation along with MPR distillation.
2. The unit is using its spent lees for molasses dilution; the fresh water is used for cooling tower makeup.
3. The spent wash generation is estimated to be 8.58 KL/KL of alcohol production.
4. The unit following bio-methanation followed by MEE of adequate capacity to concentrate to an extent of 28%-30% solids.
5. The sludge and boiler ash are used in bio-composting and land fill.
6. The unit has already installed flow meters at requisite positions.
7. The unit has installed IP cameras at lagoon and bio-compost and provided its connectivity to CPCB server.
8. The unit has placed order for mass flow meter.
9. The unit has identified the recipient drains, named Pikhana Nala, which is about two and half km from the unit.

**AND WHEREAS**, the unit has not complied with the following CPCB direction issued dated June 12, 2017;

1. The unit has not provided the details of installation and connectivity of mass flow meters.

(Contd..3/-)

2. 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/UPCB.
3. The unit has not submitted 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/UPCB.
4. The unit has not carried out monitoring of the identified recipient drains 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/UPCB.

**AND WHEREAS**, the unit (M/s Dwarikesh Sugar Industries Ltd., (Distillery Unit) is required to implement following measures besides other pollution control measures;

1. To complete installation & establishing connectivity of mass flow meter at the inlet and outlet of MEE within 15 days from the date of issuance of direction.
2. To take possible measures to ensure adequate steam availability so as to concentrate the bio-methanated spent was to around 28-30% brix (solids).
3. To set up an Effluent Quality Monitoring division equipped with all water testing facilities and with trained staff of Environment Background within one month.
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 10<sup>th</sup> of every month) to CPCB/UPPCB in the prescribed format(enclosed).
5. To carry out monthly monitoring at the identified location u/s & d/s of Pikhana nallah 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.
6. To 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 in the prescribed format(enclosed).
7. To 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.

**AND NOW, THEREFORE**, in view of the unit's non-compliance to CPCB directions dated 12, June 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. Dwarikesh Sugar Industries Ltd. (Distillery Unit)) 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 12 June 2017 to the satisfaction of CPCB.

(Contd..4/)

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.

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**(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.

**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 For CPCB Approved Vendors

Name of the distillery:																	
Address:																	
Capacity of the distillery:			KLPD,		Lac lit/annum												
Date	Raw Spent wash generation as per online mass flow meter		Cumulative Raw Spent wash generation as per online mass flow meter totaliser	Conc. Spent wash generation as per online mass flow meter		Cumulative Conc. Spent wash generation as per online mass flow meter totaliser	Whether continuity of cameras installed at bio-compost/spent wash storage is maintained	If continuity of connectivity is not maintained, please specify the duration of interruption & reason									
	MT/Hr	MT/Day		MT	MT/Hr				MT/day	MT	Yes/No						

### 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:		_____ + _____ + _____ + _____ + _____																								
<b>BIOCOMPOSTING</b>																										
Date	Press Mud Cake (PM/C) Produced	Press Mud Cake (PM/C) consumption	Concentrated spent wash consumption	Totaliser Reading	MT/ Windrow	MT/ Month	Concentrated spent wash to PM/C ratio achieved	Distance travelled by aerotiler	M-1			M-2			MT/ Annum Produced	Quality of Bio-compost						Bio-compost: Solid	Bio-compost: Stop (Concentrated spentwash) feed to the incinerator	Subsidiar fuel feed to the incinerator	Steam Generation from Incineration boiler	
									Km/day	Km/day	Km/day	MT/ Annum	N (%)	P (%)		K (%)	Moisture (%)	MT/ Annum	MT/hr	MT/hr	MT/hr					MT/hr
MT	MT/ Windrow	MT/ Month	Totaliser 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