

Speed Post

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14th January, 2019

To,

**M/s. Bajaj Hindustan Sugar Ltd. (Distillery Div),
Palia Kalan,
Lakhimpur Khiri
Uttar Pradesh-262802**

Sub: CLOSURE DIRECTION (SHOW CAUSE NOTICE) UNDER SECTION 5 OF THE ENVIRONMENT (PROTECTION) ACT, 1986-Reg.

WHEREAS, Distilleries are identified as one of the 17 categories of highly polluting industries which have been discharging environmental pollutants directly or indirectly into the ambient air and water, having potential threat to cause adverse effect on the water and air quality; and

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

WHEREAS, it is obligatory on the part of industries to install effluent treatment plants (ETPs) and air pollution control devices (APCDs) to comply with the effluent discharge and emission 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, for strengthening the monitoring and compliance through self regulatory mechanism and inculcating the habit of self monitoring within the industries for complying with the prescribed standards, Central Pollution Control Board (CPCB) has mandated installation and operation of online continuous emission and effluent monitoring systems (OCEMS) by the 17 category & Ganga GPI industries on 'polluter pays principle'; and

WHEREAS, the sector specific requirement regarding installation of OCEMS for the 17 categories, including distilleries are already uploaded in the CPCB website and is available at <http://cpcb.nic.in/online-monitoring-clarification/>; and

WHEREAS, the Ministry of Environment & Forests, Government of India, vide Notifications No- S. O. 157 (E) of 27.02.1996 and S. O. 730 (E) dated 10.07.2002, has delegated the powers vested under Section 5 of the Environment (Protection) Act, 1986 (29 of 1986) to the Chairman, Central Pollution Control Board, to issue directions to any industry or any local body or any other authority for violations of the standards and rules notified under the Environment (Protection) Rules, 1986 and amendment thereof.

WHEREAS, the Hon'ble NGT in its order dated 13.12.2018 in O.A No. 1041 of 2018 related to the alleged environment pollution caused by **M/s. Bajaj Hindustan Sugar**

Ltd., (Distillery), Palia Kalan, Lakhimpur Khiri, Uttar Pradesh-262802, (hereinafter referred to as 'the unit'), had directed CPCB for furnishing a report about the factual aspects and the action taken

WHEREAS, the unit was inspected by CPCB, Regional Directorate, Lucknow team on 03.01.2019 in compliance to Hon'ble NGT order dated 13.12.2018 and following observations were made during the inspection :

1. The unit is engaged in manufacture of Absolute Alcohol, Rectified Spirit (RS) and Extra Neutral Alcohol (ENA) using molasses as raw material with consented capacity of 60 KLD Distillation unit of 60 KLD capacity is based on multi-pressure distillation with Reboiler
2. The unit is meeting its fresh water requirement from ground water through one bore well which is situated in the premises of sugar unit. Water meter is installed to measure the water consumption and readings are maintained in the logbook.
3. The unit has installed bio-digesters (02 Nos) followed by double effect falling film MEE for treatment of spent wash generated in the process. The concentrated spent wash after MEE is utilised through bio-composting.
4. The distillery unit has Consent order to operate under Water & Air Acts having validity up to 31.12.2019.
5. As per the data provided by the unit, installed MEE is not resulting in the required concentration of Spent wash (volume reduction to min. 40%) & recycling of at least 60 % recovered water from spent wash as prescribed in the ZLD action plan by CPCB for Ganga Basin Industries.
6. The unit has provided storage lagoon having capacity equivalent to 30 days storage of concentrated spent wash generation. However, as per the specific condition of the consent issued by UPPCB, the storage capacity at any stage shall not exceed 07 days equivalent of production.
7. The unit has also provided additional lagoon which is bifurcated in two portions for storage of raw spent wash and bio-methanated spent wash in case of emergency (if any).
8. The unit has provided 32-acre land for bio-composting in which 23.73 acres is active bio-compost area which is constructed with lining and bricks. The 60-day bio-compost cycle is adopted by the unit with maximum 4 cycles in a year. The press mud to spent wash mixing ratio is 1:1.6.
9. As per the information provided by the unit, the distillery operates only for 226 days in a year and kept close during rainy season.
10. The unit has provided 02 aerotrillers with side churning machine & mixing tank & 01 JCB for management of bio-compost.
11. The machine & bags for packing of compost produced was not available at site.
12. Most of the bio-composting operations are managed in crude way. Excess spent wash was seen spread all along the compost area. The proper scientific approach was missing in the handling of spent wash & bio-composting operations.
13. A drain/nallah carrying domestic sewage was observed passing though the factory premise in between sugar & distillery unit & near the spent wash storage lagoon. Another two drains joins with this drain after leaving the plant

boundary. The samples of the drain inside the plant premises and outside the plant premises after mixing with other 02 drains are collected during the visit. The analysis results are given below:

Parameter	Unit	Drain passing through/sample within factory Premises	Drain sample Outside the Premises after mixing of two drains	Discharge Standard (EPA-1986 Sch-VI)
pH	---	6.62	6.79	5.5-9.0
Colour	Hazen	50.0	300	
SS	mg/L	48.0	61.8	100
TDS	mg/L	366	853	---
Ammonical Nitrogen	mg/L	1.92	BDL	50
BOD	mg/L	110	152	100
COD	mg/L	181	325	---

The Colour, BOD & COD concentrations found in the drain indicates about the contamination of industrial effluent. The possibility of discharge/bypass of industrial effluent from sugar or distillery unit cannot be ruled out.

14. The other effluent streams apart from spent wash and spent lees are discharged **directly without any treatment on land** inside plant premises in the name of plantation/gardening. Spent lees are sent directly for bio-composting through tankers. In this context, the consent order has a condition that, 'the other effluent streams apart from spent wash including spent lees, plant washing, leakages, bottle washing, boiler blow down, etc. shall be treated properly in a separate ETP or mixed with the feed for MEE and shall be reused / utilized in the process / utility.'

The metering system for measurement of other effluent streams is not provided. The samples of untreated other process effluent collected during the visit. The analysis results are given below:

Parameter	Unit	Other Process Effluent	Discharge Standard (EPA-1986 Sch-VI)
pH		6.78	5.5-9.0
Colour	Hazen	80.0	
SS	mg/L	117	100
TDS	mg/L	722	---
Ammonical Nitrogen	mg/L	4.67	50
Oil & Grease	mg/L	BDL	10
BOD	mg/L	130	100
COD	mg/L	231	---

The analysis results indicate that the effluent having high BOD & COD values is discharged in the environment **without any treatment**.

15. The ground water samples around the bio-compost area are collected during the visit. The total hardness, alkalinity & iron are found in higher concentration than the Acceptable Limit as Per (IS 10500: 2012). However, considering GW 2 as the reference location, no significant impact (w.r.t. GW 2) was found at other locations;

Parameter	Unit	GW 1	GW 2	GW 3	GW 4	Acceptable Limit as Per (IS 10500: 2012)
pH	--	7.60	6.98	6.74	6.83	6.5- 8.5
Colour	Hazen	BDL	BDL	BDL	20	5
SS	mg/lit	11.2	12.4	5.0	20.8	---
TDS	mg/lit	346	358	255	586	500
Total Hardness	mg/lit	391	387	281	489	200
Sodium	mg/lit	9.64	9.07	4.08	17.7	---
Potassium	mg/lit	4.66	6.88	6.09	37.2	---
Chloride	mg/lit	BDL	BDL	BDL	BDL	250
Fluoride	mg/lit	BDL	BDL	BDL	BDL	1.0
Sulphate	mg/lit	12.3	11.5	15.2	104	200
Phosphate	mg/lit	0.070	BDL	BDL	0.496	---
Nitrate	mg/lit	BDL	1.38	0.58	1.17	45
Ammonical Nitrogen	mg/lit	0.233	0.774	BDL	0.784	---
Alkalinity	mg/lit	414	426	280	546	200
COD	mg/lit	BDL	BDL	BDL	18.2	---
Cadmium	mg/lit	BDL	BDL	BDL	BDL	0.003
Copper	mg/lit	BDL	BDL	BDL	BDL	0.05
Iron	mg/lit	4.15	2.24	1.40	3.95	0.3
Zinc	mg/lit	0.077	0.426	0.014	BDL	5

GW 1 - Hand Pump at Bio-compost Yard

GW 2 - Hand Pump MelaGhat Village U/s of Bio-compost

GW 3 - Hand Pump Near Highway side at Bio-compost Yard

GW 4 - Hand Pump near Petrol Pump at Unit Gate

16. The distillery unit has installed 02 web cameras, one at storage lagoon area and one at Bio-compost area. However, considering the area of the bio-compost yard, only one camera installed was not adequate.

WHEREAS, it is evident from the above observations that the unit is violating the ZLD action plan of CPCB and Consent to Operate condition regarding management of other effluent streams apart from spent wash. The other effluent stream is being discharged without any treatment, directly on land inside plant premises for plantation/gardening and the quality is not conforming to the irrigation standards also, thus posing threat to the ground water. The unit is not complying with the bio-composting protocol of CPCB. The analysis result of the drain samples inside and outside the industrial premises shows higher values of BOD, COD and colour, indicating that possibility of contamination with industrial effluent cannot be ruled out.

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, **notice is served herewith to show cause why M/s. Bajaj Hindustan Sugar Ltd., (Distillery), Palia Kalan, Lakhimpur-Khiri, Uttar Pradesh-262802 should not be closed down** until all the necessary pollution control measures are planned and implemented so as to comply with the prescribed norms/Consent to Operate conditions/Protocol to the satisfaction of CPCB.

You are hereby given an opportunity to file your objections (if any) to the above proposed directions within 15 days from the receipt of this notice, failing which it will be presumed that you have nothing to say and appropriate action, in accordance with the provisions of the Environment (Protection) Act, 1986, will be taken against the Unit without giving any further notice.


(S. P. Singh Parihar)
CHAIRMAN

Copy to:

1. **The Member Secretary** - For information please
Uttar Pradesh Pollution Control Board,
Building No-TC-12V,
Vibhuthi Khand, Gomti Nagar,
Lucknow - 226 020
2. **The Advisor (CP Division)** - For information please
Ministry of Environment, Forest & C.C
Prithvi Block, Indira Paryavaran Bhawan,
Jorbagh Road, New Delhi - 110 003
3. **The Regional Director,** - For information please
CPCB, Regional Directorate (N)
PICUP Bhawan, Ground Floor,
Vibhuti Khand, Gomti Nagar,
Lucknow - 226 010
4. The Divisional Head, IPC-III Division, CPCB
- ✓ 5. The In-charge, IT Division, CPCB


(Prashant Gargava)
MEMBER SECRETARY