

**Speed Post**

B-190198/NGRBA(RG)/CPCB/Distillery/21/2016-17

May 28<sup>th</sup>, 2018

To,

**M/s Radico Khaitan Ltd.,  
Bareilly Road Rampur,  
(A Unit of Radico Khaitan),  
Rampur- 244901, (U.P.)**

2272  
June 4<sup>th</sup>

**DIRECTION 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 Radico Khaitan Ltd., (Distillery Division) Uttarakhand (hereinafter referred as 'the Unit') is involved in the production of extra neutral alcohol and rectified spirit using molasses as raw material and;

**WHEREAS**, the unit was inspected by the officials of Central Pollution Control Board (CPCB) dated 05.1.2017; and

**WHEREAS**, CPCB issued direction dated 02 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 UPPCB within 60 days:
  - a) Assessment of the manufacturing technology for spent wash generation and adequacy assessment of ZLD system comprising of Biomethanation, RO, MEE, composting/incineration system and steam availability, etc.

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- 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.

**WHEREAS**, the unit submitted adequacy assessment report dated 29.09.2017 prepared by VSI, Pune and as per the adequacy assessment the following observations are made;

1. Performance of RKL molasses based plant and effluent treatment plants were found satisfactory considering the spent wash generation and available spent wash effluent treatment system.
2. The spent wash generation is estimated to be 6.48 L/L of alcohol production.
3. The unit is having a total bio-compost area of 52 acres, which is sufficient for bio-compost of concentrated RO and RO Polishing reject.
4. Performance of the grain based plant and effluent treatment plant was found satisfactory.
5. The unit has installed 26 TPH biogas fired boiler and 30 TPH biogas cum rice boiler and provide its connectivity to CPCB/UPPCB Server.
6. The unit has installed 02 piezometers at compost yard 1 and 02 piezometer at compost yard 2.
7. The unit has installed flow meter with totalizer at the inlet of ROs/MEE, Outlet of ROs/MEE.

**AND WHEREAS**, the unit was issued show cause notice dated 02.01.2018 for noncompliance with the CPCB direction dated 02.06.2017 and was directed to implement the following measures besides other pollution control measures:

1. To complete connectivity of mass flow meter with CPCB server.
2. To dispose off the ready bio-compost lying on the compost yard.
3. To provide copy of records of alcohol/rectified spirit production, spent wash generation

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(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.

4. To identify recipient drains/rivulets and their u/s & d/s locations in consultant with UPPCB and shall carry out monthly monitoring of the identified recipient drains at u/s & d/s location through lab recognised under Environment (Protection) Act, 1986 and shall submit the analysis report on monthly basis (by 10<sup>th</sup> of every month) to CPCB/UPPCB.
5. 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.
6. 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 WHEREAS**, the unit has implemented the direction issued on 02.01.2018 and as per the details submitted by unit on monthly basis, following observations are made:

1. The unit has established connectivity of mass flow meters with CPCB server.
2. The unit has provided records of ethanol production, spent wash generation as per mass flow meter reading on monthly basis for the period November,17 to April,18 in the prescribed format.
3. As per monthly data submitted by the unit, the average spent wash generation per litre of alcohol is 10 KL.
4. The unit has provided analysis report of water samples collected from u/s & d/s location of the recipient municipal drain for the period January,18- April,18.
5. The unit has submitted details of pressmud procured, pressmud consumption, concentrated spent wash consumption, biocompost produced and biocompost analysis report for the period from Nov,17-Mar,18.
6. As per monthly data submitted by unit, the unit is maintaining press mud to concentrated spent wash ratio at an average of 1:1.6.
7. The unit has submitted revalidated adequacy assessment report prepared by VSI, Pune.

**AND WHEREAS**, the unit has submitted revalidated adequacy assessment report prepared by VSI, Pune vide letter dated 26.04.2018 and following observations are made on the basis of the report:

1. The designed capacity of the effluent treatment plant of the unit, which includes integrated multiple effect evaporation followed by biomethanation, reverse osmosis and biocomposting, is adequate for molasses based distillery and it is operating satisfactorily.
2. The installation of SMEE plant for concentration of BMSW or RO reject is underway and upon completion it will successfully reduce the effluent volume.

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3. The unit has a total compost yard area of 55 acres (38 acres uncovered area plus 17 acres covered area) is adequate for RO and RO polishing reject generated from molasses based distillery.
4. The designed capacity and performance of the unit's grain based plant and ETP is satisfactory.
5. The unit has implemented Rain water harvesting program in 18 villages in the vicinity of Rampur city.

**AND 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, the Show Cause Notice dated January 2<sup>nd</sup>, 2018 is hereby revoked and the unit is directed to operate as per the consent condition and shall also comply with the following:

1. The unit shall submit 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.
2. The unit shall carry out monthly monitoring of the identified recipient drains at u/s & d/s location through lab recognised under Environment (Protection) Act, 1986 and submit the analysis report on monthly basis (by 10<sup>th</sup> of every month) to CPCB/UPPCB.
3. The unit shall provide documentary support for procurement/ availability of press mud, sale of compost and compost quality on monthly basis (by 10<sup>th</sup> of every month) to CPCB/UPPCB in the prescribed format.

In case of default in compliance with the above directions or any other exigencies, CPCB will be constrained to initiate further action against the unit, in accordance with the provisions of the Environment (Protection) Act, 1986, without any further notice.

  
(S. P. Singh Parihar)  
CHAIRMAN

Copy to:

1 **Chairman**

Uttar Pradesh Pollution Control Board,  
Building No. TC-12V, Vibhuthi Khand,  
Gomti Nagar, Lucknow – 226 010

: For kind information, please.

(Contd..5/-)

2 **Joint Secretary (CP Division)**  
Ministry of Environment, Forest & C.C  
Prithvi Block, Indira Paryavaran Bhawan,  
Jorbagh Road, New Delhi – 110 003

: For kind information, please

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

: For kind information, please.

4 ✓ The In-charge, IT Division, CPCB

5 Master file/Guard file WQM II, CPCB Delhi



(A SUDHAKAR)  
MEMBER SECRETARY