

Speed Post

B-190198/NGRBA(RG)/CPCB/Distillery/39/2016-17

May, 16th 2018

To,

**M/s Riga Sugar Co. Ltd., (Distillery Division)
Dhanuka Gram Riga, P.O.Riga,
District-Sitamarhi, Bihar – 843327**

**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 Riga Sugar Co. Ltd., (Distillery Division), Bihar (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 had issued direction on 24.02.2015 and a follow up direction on 23.04.2015, under section 18(1)(b) of Water Act, 1974 to Bihar State Pollution Control Board for ensuring that the molasses based distilleries including yeast manufacturing units in the state of Uttarakhand shall achieve zero liquid discharge, as per the options specified in the direction; and

WHEREAS, CPCB had issued closure direction u/s 18(1)(b) of water Act, 1974 dated 22/12/2016 to the Uttarakhand Environment Protection & Pollution Control Board for further directing the unit to discontinue all manufacturing operations and shall not be permitted to restart operations until they comply with the action plan for achieving ZLD and;

(Contd..2/-)

M/s Riga Sugar Co. Ltd., (Distillery Division)

WHEREAS, CPCB, issued direction dated June 16, 2017 to the unit, to resumes its manufacturing operations and to comply with the following directions;

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 SPCB 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 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 & SPCB servers within 75 days.
3. The unit shall identify recipient drains/ rivulets and their u/s & d/s locations in consultation with SPCB 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 10th of every month) to CPCB/SPCB.

AND WHEREAS, unit has submitted the adequacy assessment report validated by VSI, Pune dated 09.10.2017 and as per the adequacy assessment report, following observations are made;

1. Distillery division effluent treatment plant was found satisfactory considering the spent wash generation and available spent wash effluent treatment system.
2. The unit has installed CSTR digester with higher retention time and higher organic loading rate are sufficient to achieve desired reduction of COD in the range of 60-65%.
3. The unit has installed two mass flow meters.
4. The unit is advised to install condensate Polishing unit (CPU) on priority basis for treatment of evaporation condensate and spent less from distillation plant.
5. Process condensate and treated condensate should be analyzed for pH, conductivity, BOD, COD, TS, TDS & TSS.
6. It is advised to install piezometer at requisite positions.
7. The spent wash generation is estimated to be 7.93 L/L of alcohol production.
8. The unit has placed order for mass flow meter.
9. The unit should take care of green belt surrounding the bio-composting yard.
10. The unit has identified the recipient drains, rainy season Nala, which is about 200 mtrs upstream towards west direction & downstream towards east direction.

AND WHEREAS, the unit has not complied with the following CPCB direction issued dated June 16, 2017;

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1. The unit has not completed the installation and connectivity of mass flow meters at the inlet and outlet of MEE.
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 10th of every month) to CPCB/SPPCB.
3. 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 10th of every month) to CPCB/SPCB.

AND WHEREAS, CPCB issued Show cause notice dated 02, Jan, 2018 to the unit to implement the following 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 and shall provide connectivity of mass flow meter to CPCB /SPCB server.
2. To install CPU for treatment of evaporation condensate and spent less from distillation plant.
3. To install piezometer at requisite position.
4. To analyse raw spent wash, untreated and treated process condensate water regularly.
5. To strictly avoid any contamination of spent wash with water of adjacent nallah.
6. For smooth functioning of standalone evaporation plant, it is advisable to add two bodies as standby evaporators one for first three effects and another for last three effects.
7. 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 10th of every month) to CPCB/SPPCB in the prescribed format (enclosed).
8. To carry out monthly 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 10th of every month) to CPCB/SPCB.
9. To use concentrated press mud: spent wash 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 10th of every month) to CPCB/SPPCB in the prescribed format (enclosed).
10. 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 replies vide letter dated 27.01 2018, 10.03.2018, & 09.04.2018 were examined and following observations made;

1. The unit has installed mass flow meter at the inlet and outlet of MEE.
2. The unit has not installed CPU.
3. The unit have given order for installation of piezometers.

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4. The unit is regularly providing the 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.
5. The unit has sent the analysis report of identified drain of Feb 2018.

AND WHEREAS, the unit was inspected by the officials of Central Pollution Control Board (CPCB), dated 06.03.2018 for the verification of compliance by the unit and following observations are made during the inspection;

1. The unit has adopted continuous fermentation process with consent capacity of 50 KLPD.
2. The unit has installed Bio-digester, MEE, followed by Bio-composting for the management of spent wash.
3. The unit has not installed piezometers yet.
4. The unit has not installed Condensate Polishing unit for further processing of condensate.
5. Analysis of sample collected from MEE Condensate, showed **pH-4.0, TSS 20 mg/l, TDS 1343 mg/l, BOD-9684 mg/l, & COD 14960 mg/l**. The unit is discharging MEE condensate directly in cooling tower, floor washing and gardening.
6. Disposal of condensate having high **BOD-9684 mg/l, & COD 14960 mg/l** on land application /gardening by the unit is in violation of ZLD condition as speculated under the consent order and poses threat to the surface water/ ground water pollution.

NOW, THEREFORE, in view of the above and exercising powers delegated to the Chairman, Central Pollution Control Board (CPCB) under section 5 of the Environment (Protection) Act, 1986, **the unit (M/s Riga Sugar Co. Ltd.) is directed to close down all its manufacturing operations with immediate effect and report the same to CPCB immediately and not to restart its manufacturing operations till the compliance of following directions:**

1. To immediately discontinue the practice of utilising its MEE condensate effluent in Gardening.
2. To install Condensate Polishing Unit (CPU) for the treatment of evaporation condensate and spent lees from distillation plant.
3. To install piezometers at requisite position.
4. To submit the analysis report of the identified recipient drains on monthly basis (by 10th of every month) to CPCB/SPCB
5. To submit adequacy the revalidated adequacy assessment report carried out by the institute which has conducted adequacy of assessment and submit the reports within 10 days after the issue of the direction.
6. The unit shall seek permission of CPCB before restart of manufacturing operations.

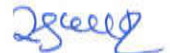
In case of default in compliance with the above directions by the Unit (M/s Riga Sugar Co. Ltd), CPCB will be constrained to initiate appropriate action against the Unit, in accordance with the provisions of the Environment (Protection) Act, 1986.

/
(S. P. Singh Parihar)
CHAIRMAN

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Copy to:

1. The Member Secretary
Bihar State Pollution Control Board,
Beltron Bhawan, Shastri Nagar,
Patna – 800 023 :With request to ensure that the unit
complies with the directions
2. The 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. The Regional Director, East
Regional Directorate
Central Pollution Control Board
Southernd Conclave, Block 502,
5th & 6th Floors 1582 Rajdanga Main Road
Kolkata – 700 107(W.B.) : For follow up and ensuring
compliance
4. The District Magistrate,
Sitamarhi -Bihar :With request to ensure
compliance of closure direction
5. The Chief Engineer,
North Bihar Power Distribution Company Ltd.
Second Floor, Vidyut Bhawan,
Bailey Road, Patna-800001 : With request to dis-connect the
power supply for industrial
operations. However, power supply
for domestic and security purposes to
continue.
6. The In-charge, IT Division, CPCB For follow up please
7. Master file/Guard file, WQM II, CPCB, Delhi



(A Sudhakar)

MEMBER SECRETARY