

Speed Post

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

March 8th, 2019

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 Bihar shall achieve zero liquid discharge, as per the options specified in the direction; and

WHEREAS, the unit was inspected by the officials of Central Pollution Control Board (CPCB), dated 06.03.2018 and following observations were made:

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.

(Contd..2/-)

4. The unit has not installed Condensate Polishing Unit for further treatment 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.

AND WHEREAS, CPCB issued direction dated 18.05.2018 under Section 5 of the Environment (Protection) Act, 1986, to the Unit to close down all manufacturing operations with immediate effect and not 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.

AND WHEREAS, unit's reply vide letters dated 13.06.18, 03.09.2018 and 21.09.2018, were examined and following observations are made:

1. The unit has closed down its manufacturing operations and has discontinued the practise of utilizing the MEE condensate in gardening.
2. The unit has submitted a detailed action plan on installation of CPU and has placed order for installation and commissioning of CPU by March 2019.
3. The unit currently has in-house condensate treatment facility consisting of pH correction by alkali dozing, followed by ozonation/sand filtration and finally RO treatment.
4. The unit has informed that treated permeate having COD and BOD in the range of 600-800 PPM and 200-300 PPM respectively, will be reused in cooling tower and fermentation process
5. The unit has procured two piezometers and their installation is underway.
6. The unit is submitting the analysis report of identified recipient drains on monthly basis.
7. The unit is yet to submit revalidated adequacy report since it has been non-operational since April, 2018.

(Contd..3/-)

AND WHEREAS, the unit was inspected by CPCB officials on 27.09.2018 and the following observations were made:

1. Treatment facility adopted by the unit for treating MEE condensate comprises of degradation of MEE condensate, followed by ozonation, sand filtration and RO treatment. The efficiency of the treatment facility could not be validated since the unit was not in operation during inspection.
2. The utilization of treated condensate in cooling tower and fermentation process could not be validated since the unit was not in operation during the inspection.
3. The unit has installed a new biodigester for increased efficiency of biomethanation.
4. The unit has installed two piezometers.
5. The unit has placed an order for a condensate polishing unit (CPU) of 700 m³/day capacity. However, the same is yet to be installed and commissioned.

AND WHEREAS, based on the recommendations of the Three Member Committee in its meeting held on 04.10.2018, CPCB issued Direction dated 22.10.2018 under Section 5 of Environment (Protection) Act, 1986, to comply with the following:

1. The unit shall operate for a period of 45 days following which they shall close down the manufacturing operations, intimate the same to CPCB and seek permission from CPCB to resume its operations.
2. The unit shall submit analysis result of the treated condensate for the parameters like pH, COD, BOD, VFA and TDS on weekly basis through environmental laboratory recognized under the Environment (Protection) Act, 1986 and the same shall be provided to CPCB.
3. The unit shall submit revalidated adequacy assessment report along with the performance audit report within the stipulated 45 days of operation
4. The unit shall treat the condensate in the existing interim condensate treatment facility and shall utilize the treated condensate in process activities; the same shall be verified within 45 days of operation by a technical institute.
5. The unit shall not discharge any liquid outside the factory premise.

AND WHEREAS, Unit submitted replies dated 04.12.2018, 22.12.2018 and 29.12.2018, which were examined and following observations are made:

1. The Unit has completed the stipulated 45 days of operation on 31.12.2018.
2. The Unit has submitted analysis report of treated and untreated condensate, on weekly basis for the month of November and December, 2018.
3. The Unit has submitted revalidated adequacy assessment report along with performance audit report, within the stipulated 45 days of operation, vide letter dated 22.12.2018.
4. The Unit is treating the evaporation condensate and spent lees in multi sand grade filter, activated carbon filter followed by R.O. treatment. The R.O. permeate (treated condensate) is used as cooling tower make-up and R.O. reject is used as SMEE feed.
5. Officials of VSI, Pune has verified the interim condensate treatment facility.

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6. As per unit's reply dated 22.12.2018, unit assured that there is no discharge of any liquid outside the factory premise.

AND WHEREAS, the Three Member Committee in its meeting held on 14.02.2019, examined the Unit's replies and recommended for resumption of operations of the Unit with the following conditions:

1. The Unit shall ensure the installation and commissioning of the Condensate Polishing Unit (CPU) as well as intimate the same to CPCB by 31.03.2019, failing which the Unit will stop its production.
2. The Unit shall not discharge effluent outside the premise.

NOW THEREFORE, in view of the above and in exercise of the 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. (Distillery Division), Sitamarhi, Bihar, is directed to comply with the following:**

1. The Unit shall ensure the installation and commissioning of the Condensate Polishing Unit (CPU) as well as intimate the same to CPCB by 31.03.2019, failing which the Unit will stop its production.
2. The Unit shall not discharge effluent outside the premise.
3. The Unit shall deposit an Environmental Compensation amount of Rs 21,00,000/- for the period starting from 31.12.2018, i.e., the date of completion of the stipulated 45 days of manufacturing operations as per CPCB direction dated 22.10.2018, in accordance with the Environmental Compensation policy framed in compliance with NGT order dated 31.08.2018 in O.A. No. 593/2017.

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

Copy to:

1. **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. **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

(Contd.5/)

3. **Regional Director, East** : For ensuring compliance
Regional Directorate
Central Pollution Control Board
Southernd Conclave, Block 502,
5th & 6th Floors 1582 Rajdanga Main Road
Kolkata – 700 107(W.B.)
4. The In-charge, IT Division, CPCB
5. Master file/Guard file, WQM II, CPCB, Delhi

(PRASHANT GARGAVA)
MEMBER SECRETARY