

Speed Post

B-190198/NGRBA(RG)/CPCB/Distillery/46/2017-18 /17460

February 25th, 2019

Feb 28th, 2019

To,

M/s HPCL Biofuels Ltd.,
Lauriya, West Champaran
Bihar-845453

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. HPCL Biofuels Ltd. (Distillery Division), Lauriya, Bihar, (hereinafter referred as 'the Unit') is involved in the process of extra neutral alcohol and rectified spirit using molasses as raw material; and

WHEREAS, the Unit has installed capacity of integrated Sugar 13500 (TCD), Distillery (60 TCD) and co-generation (20 MW) as per MoEF, EC no. J-11011/330/2009-IA-II (I) dated 22.04.2010; and

WHEREAS, CPCB issued direction dated 30th November, 2017, under Section 5 of Environmental (Protection) Act, 1986 to the Unit to comply with the following directions:

1. The plant capacity shall be restricted to 35 KLPD to ensure desired quality of bio-compost since presently the distillery has only 5 acres of bio-compost yard which is inadequate when plant is operating at its rated capacity.
2. The Unit shall install mass flow meters at 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 & BSPCB servers within 45 days.
3. The Unit shall install separate flow meters to ascertain use of raw/fresh water at various

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Unit operations so as to take measures for reducing its water consumption further.

4. The Unit shall create analytical facilities along with trained staff of environmental background. The analysis of bio-compost should be carried out from recognized laboratory/organization.
5. The Unit shall upgrade facilities to record generation of effluent from various sources including chemical cleaning of MEE & other washings etc. The Unit should also keep a data on its treatment and utilization subsequently.
6. The Unit has to develop and facilitate continuous monitoring of operating parameters and analysis of spent wash at various stages so as to derive a correct picture.
7. The Unit shall identify recipient drains/rivulets and their u/s & d/s locations in consultant with Bihar SPCB 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 10th of every month) to CPCB/Bihar SPCB in the prescribed format.
8. The Unit shall restrict the storage capacity to 30 days of spent wash generation.
9. The Unit shall 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/Bihar SPCB in the enclosed prescribed format.
10. The Unit shall use concentrated spent wash: press mud ratio of 1:1.6 and shall provide documentation support for procurement/ availability of press mud, sale of compost and compost quality on monthly basis (by 10th of every month) to CPCB/Bihar SPCB in the enclosed prescribed format.
11. The Unit shall 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 was inspected by the officials of Central Pollution Control Board (CPCB), on 10.01.2018 for the verification of compliance by the Unit and following observations were made based on inspection;

- ❖ The Unit is a molasses based distillery having installed capacity of 60 KLD and present production of 35 KLD. During the visit the Unit was in operation.
- ❖ The Unit has installed mass flow meter only at inlet of MEE but it is not connected to CPCB/Bihar SPCB.
- ❖ Bio-methanation plant and CPU are under commissioning. Hence, the spent wash is treated through evaporation (MEE) followed by biocomposting.
- ❖ The analysis report of samples collected at the time of inspection, indicate that the MEE condensate is highly acidic (pH 2.94) and has COD of 2400 mg/l.
- ❖ As per inspection report, the Unit could not provide up-to-date documents on alcohol production, spent wash generation, copies of logbook on MEE operations, pressmud and concentrated spent wash consumption etc.
- ❖ The capacity of holding tanks for raw as well as concentrated spent wash is inadequate as

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per calculations based on the information provided in inspection report.

- ❖ The record for pressmud procured/ consumed as well as prepared biocompost has not been provided by the Unit.

AND WHEREAS, the Unit was issued Show Cause Notice dated 11.05.2018 under Section 5 of the Environment (Protection) Act, 1986 and was directed to implement the following measures besides other pollution control measures:

1. The Unit shall install mass flow meter at outlet of MEE and establish connectivity of mass flow meters 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 to CPCB & Bihar SPCB servers within 15 days.
2. The Unit shall carry out monthly monitoring of the identified recipient drain at u/s and d/s locations through lab recognised under Environment (Protection) Act, 1986 and to submit the analysis report on monthly basis (by 10th of every month) to CPCB/Bihar SPCB.
3. The Unit shall 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/Bihar SPCB.
4. The Unit shall use concentrated press mud to spent wash ratio of 1:1.6 and shall provide documentation support for procurement/ availability of press mud, sale of compost and compost quality on monthly basis (by 10th of every month) to CPCB/Bihar.
5. The Unit shall expedite the installation and operation of CPU and intimate the same to CPCB and Bihar SPCB.
6. The Unit shall develop and facilitate continuous monitoring of operating parameters and analysis of spent wash at various stages so as to derive a correct picture.
7. The Unit shall 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's replies vide letter dated 28.9.2018, 1.10.2018 and 29.10.2018 were examined and following observations were made;

1. Unit has installed mass flow meters at distillation outlet, MEE inlet and outlet. It has also provided connectivity of mass flow meters with CPCB and BSPCB servers.
2. Although Unit has restricted its plant capacity to 35 KLPD but it has requested for grant of permission to operate plant intermittently at its installed capacity of 60 KLPD.
3. The Unit has already installed CPU system for treatment of MEE condensate.
4. The Unit has identified the recipient drain as Sikrahana River.
5. The Unit has assured to submit the data for alcohol production, spent wash generation, mass flow meter reading, concentrated spent wash to press mud ratio, quality and sale of bio-

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compost as well as analysis report of u/s & d/s locations of identified drain, after resuming its manufacturing operations.

6. The Unit has submitted the ETP performance report prepared by NSI.

AND WHEREAS, the Unit's request for grant of permission to operate plant intermittently at its installed capacity of 60 KLPD vide letter dated 28.09.2018 was examined and following observations were made:

1. The Unit has requested for revocation of restriction on production capacity from 35 KLPD and grant permission to operate intermittently at installed capacity of 60 KLPD.
2. The Unit submitted proposed action plan to operate plant at 60 KLPD capacity, duly validated by NSI.
3. The Unit is constructing an additional lagoon of 6000 KL to facilitate the storage of excess concentrated spent wash.
4. The Unit has submitted Environmental Clearance issued by MOEF &CC dated 22.04.2010, to operate Unit at the production capacity of 60 KLPD.

AND WHEREAS, the Unit's reply vide letter dated 06.02.2019 was examined and following observations made;

1. The construction of additional lagoons is underway and shall be completed within 10 days.
2. Unit has a common boiler due to which it will remain operational seasonally only when the integrated sugar plant is operational.
3. Unit's area of biocomposting is 5 acres, therefore subject to commissioning of additional lagoon with storage capacity of 3000 M³, Unit can operate at 60 KLPD only for 60 days.
4. After 60 days at 60 KLPD capacity, Unit shall restrict production capacity to 35 KLPD.
5. Post completion of the first biocomposting cycle, balance concentrated spent wash remaining in the lagoon will be 2460 KL; this will be utilized in the subsequent biocomposting cycles as there will be a deficit of 660 KL per cycle when Unit is operated at 35 KLPD capacity.

NOW THEREFORE, in view of the above observations 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 HPCL Biofuels Ltd. (Distillery Division), Lauriya, Bihar**, is directed to comply with the following directions:

1. The Unit shall operate at 60 KL per day of ethanol production for 60 days only and thereafter the Unit shall restrict its operation at 35 KLPD.
2. The Unit shall not start its operation at higher capacity before commissioning of additional lagoon capacity.
3. The Unit shall obtain consent to operate at 60 KLPD for 60 days from Bihar State Pollution Control Board.
4. The Unit shall inform the CPCB, the date of start of manufacturing operations at 60 KLPD as well as date of commissioning of lagoon along with photographic evidence.

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In case of default in compliance with the above directions or any other exigencies, CPCB will be constrained to initiate further stringent action against the Unit (M/s HPCL Biofuels Ltd. (Distillery Division), Lauriya, Bihar, in accordance with the provisions of the Environment (Protection) Act, 1986, without any further notice.


(S. P. SINGH PARIHAR)
CHAIRMAN

Copy to:

1. **The Member Secretary**
Bihar State Pollution Control Board,
Beltron Bhawan, Shastri Nagar,
Patna – 800 023 : With request to ensure compliance
of 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
Southern 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,**
East Champaran -Bihar : With request to ensure compliance of
the direction
5. ✓ The In-charge, IT Division, CPCB
6. Master file/guard file WQM II, CPCB, Delhi


(A.SUDHAKAR)
MEMBER SECRETARY