



**ANDHRA PRADESH POLLUTION CONTROL BOARD**

D. No. 33-26-14 D/2, Near Sunrise Hospital, Pushpa Hotel Centre,  
Chalamalavari Street, Kasturibaipet, Vijayawada - 520 010  
Website: www.pcb.ap.gov.in

**CONSENT ORDER FOR ESTABLISHMENT**

**Order No. APPCB/VSP/VZN/173/HO/CFE/2020**

**20/03/2020**

Sub:APPCB – CFE - **M/s. EID Parry (India) Limited, (Distillery Division), R. Sy. No. 289 to 399, Sankili (V), Regidi Amadalavalasa (M), Srikakulam District** – Consent for Establishment (expansion) of the Board under Sec.25 of Water (P & C of P) Act, 1974 and Under Sec.21 of Air (P&C of P) Act, 1981 - Issued - Reg.

- Ref:
1. EC order dt. 08.03.2004 and EC amendment order dt. 25.02.2015 issued by MoEF&CC, GoI, New Delhi.
  2. Industry's application received through AP OCMMS on 25.02.2020.
  3. R.O's inspection report dt. 09.03.2020.
  4. Industry's letter dt. 17.03.2020
  5. CFE Committee meeting held on 17.03.2020.

1. In the reference 2<sup>nd</sup> cited, an application was submitted to the Board seeking Consent for Establishment (CFE) for **enhancement of existing Ethanol production with modification in fermentation process** as mentioned below, with an additional project cost of Rs. 0.05 lakhs.

| S. No.                | Name of the Products                               | Consented capacity as per CFE Amendment order dt.04.01.2018 & CFE dt.18.08.2019 | Applied as per CFE application | Total after process modification |
|-----------------------|--|---|--------------------------------|----------------------------------|
| 1.                    | Anhydrous Ethanol (or) ENA (Extra Neutral Alcohol) | 40 KLD  | 8 KLD                          | 48KLD                            |
| <b>By – Products:</b> |  |   |                                |                                  |
| 1.                    | Organic compost                                    | 18,858.00 TPA   | --                             | --                               |
| 2.                    | Impure Spirit                                      | 65.00 TPM   | --                             | --                               |
| 3.                    | Fusel oil  | 2.65 TPM  | --                             | --                               |
| 4.                    | Potash Fertilizer                                  | 65 TPD  | --                             | --                               |
| 5.                    | K-ASH  | 20.0 TPD  |                                |                                  |
| 6.                    | Captive power                                      | 1.06 MW   |                                |                                  |

2. As per the application, the above activity is to be located within the existing industry premises at R. Sy. No. 289 to 399, Sankili (V), Regidi Amadalavalasa (M), Srikakulam District in an area of 1,61,874.0 Sq.m.

3. The above site was inspected by the Environmental Engineer and Asst. Environmental Engineer, Regional office, Srikakulam, A.P Pollution Control Board, on 07.03.2020 and observed that the site is surrounded by

**North** : Village road (Devadula village)

**South** : Agricultural lands

**East** : Agricultural lands

**West** : Agricultural land followed by Palakonda-Rajam road

4. The Board, after careful scrutiny of the application, verification report of Regional Officer and recommendations of the CFE Committee, hereby issues **CONSENT FOR ESTABLISHMENT for expansion** under Section 25 of Water (Prevention & Control of Pollution) Act 1974 and Section 21 of Air (Prevention & Control of Pollution) Act, 1981 and the rules made there under. **This order is issued to manufacture the products as mentioned at para (1) only.**

5. This Consent Order now issued is subject to the conditions mentioned in Annexure.

6. This order is issued from pollution control point of view only. Zoning and other regulations are not considered.

**7. This order is valid for period of 7 years from the date of issue.**

Encl: Annexure

**VIVEK YADAV IAS, MS(VY), O/o MEMBER SECRETARY-APPCB  
MEMBER SECRETARY**

**To**

**M/s. EID Parry (India) Limited, (Distillery Division),  
R.Sy.No.289 to 399,  
Sankili (V),  
Regidi Amadalavalasa (M),  
Srikakulam District-532440.  
nagaseshreddya@parry.murugappa.com**

**Copy to:** 1. The JCEE, Z.O: Visakhapatnam for information and necessary action.

2. The E.E., R.O: Srikakulam for information and necessary action.

**Annexure**

1. Separate energy meters shall be provided for Effluent Treatment Plant (ETP) and Air pollution Control equipments to record energy consumed.
2. The proponent shall obtain Consents for Operation (CFO) from APPCB, as required Under Sec.25/26 of the Water (P&C of P) Act, 1974 and under sec. 21/22 of the Air (P&C of P) Act, 1981, before commencement of the activity.
3. The consent of the Board shall be exhibited in the factory premises at a conspicuous place for the information of the inspecting officers of different departments.

**Water:**

4. The source of water is River Nagavali and the maximum permitted fresh water consumption is as following:

| <b>S.No.</b> | <b>Purpose</b>                     | <b>Quantity (KLD)</b> |
|--------------|------------------------------------|-----------------------|
| 1            | Process & Washings                 | 400                   |
| 2            | Cooling tower makeup & RS dilution | 200                   |
| 3            | DM Plant / softener re- generation | 45                    |
| 4            | Boiler feed                        | 240                   |
| 5            | Domestic                           | 5                     |
|              | <b>Total</b>                       | <b>890</b>            |

5. The maximum waste water generation shall not exceed the following:

| <b>S.No.</b> | <b>Source</b>                     | <b>Quantity (KLD)</b> |
|--------------|-----------------------------------|-----------------------|
| 1            | Process and washings              | 400                   |
| 2            | DM Plant/ softener Re- Generation | 45                    |
|              | Cooling tower                     | 22                    |
|              | Boiler                            | 25                    |
| 3            | Domestic Effluents                | 4                     |
|              | <b>Total</b>                      | <b>496</b>            |

**Treatment & Disposal :**

As per CFE order dt.18.08.2019 and after changing the process technology from continuous fermentation to fed batch fermentation technology:

| <b>Effluent source</b>   | <b>Treatment</b>   | <b>Mode of final disposal</b>  |
|--|--|--|
| Process and wash effluent (spent wash)                                 | <p>The industry shall utilize existing ETP consisting of Buffer tank, Anaerobic digester, Degassing tower, Lamella clarifier, Gas holder, Lagoons – 2 x 7500m<sup>3</sup> , Reverse osmosis plant – 400 KLD, Multiple effect evaporators – 255 KLD and ATFD 65 TPD. The industry shall install stand alone Evaporation system of 340 KLD capacity after existing MEE to increase the concentration of spent wash.</p> <p>The concentrated spent wash shall be fed to incineration Boiler of capacity 15 TPH along with coal.</p> <p>The industry shall generate captive power of about 1.06 MW. The back pressure shall be utilized for process in Distillery.</p> | Ash generated from the boiler shall be sold as fertilizer  |
| DM Plant/softener Re-Generation + Cooling Blow Down + Boiler Blow Down | Shall be treated in spiral RO of capacity 400 m <sup>3</sup> /day.   | Permeate shall be utilized for molasses dilution and cooling tower makeup. Rejects from the RO shall be utilized for existing bio-compost or further treatment in standalone evaporation system. |
| Domestic Effluents.  | ----   | Septic tank followed by soak pit.  |

6. The Effluent Treatment Plant (ETP) shall be constructed and commissioned along with commissioning of activity. All the units of the treatment system shall be impervious and shall be constructed 1m above the ground level to prevent ground water pollution.
7. Under no circumstances the effluents shall be discharged outside the industry premises.
8. Separate meters with necessary pipe-line shall be provided for assessing the quantity of water used for each of the purposes mentioned below:
  - a) Industrial cooling, boiler feed.
  - b) Domestic purposes.
  - c) Processing, whereby water gets polluted and pollutants are easily bio-degradable.
  - d) Processing, whereby water gets polluted and the pollutants are not easily bio-degradable.

9. The industry shall provide concrete drains near processing sections such that the spillages, leakages are collected and connected to ETP for further treatment.
10. The industry shall provide separate storm water drains along the periphery of the site such that the in plant rain water is collected in collection tank and shall be connected to ETP. Under no circumstances effluent / storm water shall be discharged from the plant premises.
11. Adequate numbers of ground water quality monitoring stations by providing piezometers around the project area shall be set up. Sampling and trend analysis monitoring must be made on quarterly basis and report shall be submitted to concerned Regional Office.
12. **The industry shall provide digital flow meters with totalisers at inlet and outlet of collection tank and MEE separately for measuring effluent generation, treatment and recycled.**

**Air:**

13. The industry shall comply with the following:

| <b>S.No.</b> | <b>Details of Stack</b>                    | <b>Stack – 1</b> | <b>Stack – 2</b> | <b>Stack – 3</b>                                   |
|--------------|--|------------------|------------------|--|
| a)           | Attached to                                | Boiler           | Fermentor        | Boiler   |
| b)           | Capacity                                   | 10 TPH           | --               | 15 TPH   |
| c)           | Fuel                                       | Bagasse          | --               | Coal - 1.5 TPH<br>Concentrated Spent wash - 5.5TPH |
| d)           | Stack height: Above the ground (m)         | 40m              |                  | 51 m   |
| e)           | Details of Air Pollution Control Equipment | ESP              | Scrubber         | Bag filters  |

14. The proponent shall comply with the following for controlling Fugitive emissions:
  - a. Raw material unloading areas shall be provided with dust suppression system.
  - b. All material transfer points shall be provided with dust extraction system with bag filters.
  - c. All the conveyors are shall be covered to prevent the fly off of fugitive dust.
  - d. All internal roads are shall be made pucca to prevent the fugitive dust to vehicular movement.
15. The proponent shall ensure compliance of the National Ambient Air quality standards notified by MOE&F, GOI vide notification No. GSR 826(E), dated. 16.11.2009 during construction and regular operational phase of the project.
16. The industry shall take appropriate measures to control odour nuisance in the surroundings and the measures taken shall be reported to Concerned Regional office of APPCB before applying for CFO.
17. **The industry shall provide continuous online stack monitoring system and shall be networked to APPCB/CPCB for website display.**

18. Ambient Air Quality monitoring stations shall be setup in the down wind direction as well as where maximum ground level concentration of PM<sub>2.5</sub>, PM<sub>10</sub>, SO<sub>2</sub>, NO<sub>x</sub> & HCl (methane & non-methane) are anticipated in consultation with concerned Regional Office.
19. A sampling port with removable dummy of not less than 15 cm diameter shall be provided in the stack at a distance of 8 times the diameter of the stack from the nearest constraint such as bends etc. A platform with suitable ladder shall be provided below 1 meter of sampling port to accommodate three persons with instruments. A 15 AMP 250 V plug point shall be provided on the platform.
20. The generator shall be installed in a closed area with a silencer and suitable noise absorption systems. The ambient noise level shall not exceed 75 dB(A) during day time and 70 dB(A) during night time.

**Solid Waste:**

21. The proponent shall comply with the following:

| S. No. | Name of the Hazardous Waste | Quantity of Hazardous Waste (TPD) |           |       | Disposal Option             |
|--------|-----------------------------|-----------------------------------|-----------|-------|-----------------------------|
|        |                             | Existing as per CFE dt.18.08.2019 | Expansion | Total |                             |
| 1      | Yeast sludge                | 1.75                              | 0.25      | 2.0   | Utilized as organic manure. |

22. The following rules and regulations notified by the MoEF&CC, GoI shall be implemented.
  - a) Regulation of Persistent Organic Pollutants Rules, 2018.
  - b) Hazardous waste and other wastes (Management and Transboundary Movement) Rules, 2016.
  - c) Plastic Waste Management Rules, 2016.
  - d) Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989
  - e) Fly Ash Notification, 2016.
  - f) Batteries (Management & Handling) Rules, 2010.
  - g) E-Waste (Management) Rules, 2016.
  - h) Construction and Demolition waste Management Rules, 2016.
  - i) Solid Waste Management Rules, 2016.
  - j) The Public Liability Insurance Act, 1991 and its amendments thereof.

**Other Conditions:**

23. **The industry shall start modification in the process for expansion only after submitting a copy of the EC amendment order at the Regional Office: Srikakulam.**
24. As per O.M. dt. 25.03.2019 issued by MoEF&CC, GoI, New Delhi "In case of projects/distilleries involving installation of incineration boilers for spent wash treatment and thus to achieve zero liquid discharge, there shall be no requirement for amendment in the existing EC to increase number of working days or otherwise subject to meeting the prescribed emission standards for boilers, minimum solid content in the slop, ZLD condition and installation/connectivity of online continuous emissions monitoring systems (OCEMS)."

25. Existing green belt shall not be disturbed during the proposed activity. The industry shall maintain thick green belt of width 15 m. along the industry boundary and 25 m. width around bio compost yard as stipulated in the CFE order dt. 01.07.2006.
26. The proponent shall ensure that there shall not be any change in the process technology and scope of working without prior approval from the Board.
27. The proponent shall comply with all the directions issued by the Board from time to time.
28. Concealing the factual data or submission of false information / fabricated data and failure to comply with any of the conditions mentioned in this order attracts action under the provisions of relevant pollution control Acts.
29. Notwithstanding anything contained in this conditional letter or consent, the Board hereby reserves its right and power Under Sec. 27(2) of Water (Prevention and Control of Pollution) Act, 1974 and Under Sec.21(4) of Air (Prevention and Control of Pollution) Act, 1981 to revoke the order, to review any or all the conditions imposed herein and to make such modifications as deemed fit and stipulate any additional conditions.
30. Any person aggrieved by an order made by the State Board under Section 25, Section 26, Section 27 of Water Act, 1974 or Section 21 of Air Act, 1981 may within thirty days from the date on which the order is communicated to him, prefer an appeal as per Andhra Pradesh Water Rules, 1976 and Air Rules,1982, to such authority (hereinafter referred to as the Appellate Authority) constituted under Section 28 of Water (Prevention and Control of Pollution)Act,1974 and Section 31 of the Air (Prevention and Control of Pollution) Act, 1981.

**VIVEK YADAV IAS, MS(VY), O/o MEMBER SECRETARY-APPCB  
MEMBER SECRETARY**

**To**

**M/s. EID Parry (India) Limited, (Distillery Division),  
Sankali Village,  
Regidi Amadalavalasa Mandal,  
Srikakulam District-532440.  
nagaseshreddya@parry.murugappa.com**