

No: TBL-5/DIST/KSPCB/ENVIRONMENTAL STATEMENT/2026-27/

Date: 10.07.2026

To,

The Environmental Officer,
Karnataka State Pollution Control Board,
Sector No 07, Bypass Road, Navanagar,
BAGALKOT-587 102

Dear Sir,

Sub: Submission of Environmental Statement form V in duplicate for the financial year 2025-26-**reg**

With Reference to the above we are submitting here with Environmental Statement form V in duplicate for the financial year 2025-26, for the 200 KLPD Distillery Unit.

Please acknowledge the receipt of the same.

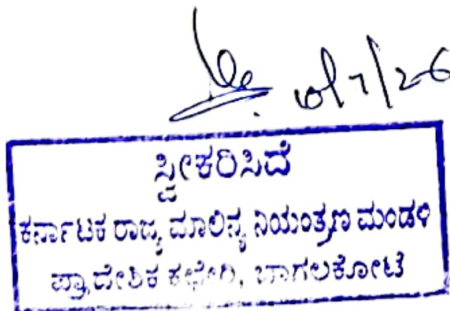
Thanking you,

Yours faithfully

For TruAlt Bioenergy Limited Unit-05



16.
Authorized Signatory



ENVIRONMENTAL STATEMENT FOR THE YEAR 2025-26

FOR

M/s TRUALT BIOENERGY LIMITED, UNIT-5
Muttalgeri-Badami village, Badami Taluk, Bagalkot District, Karnataka State



M/s. TruAlt Bioenergy Limited., Unit-5, Muttalgeri-Badami village, Badami

Environmental Audit- An Overview

Like financial auditing; which is conducted every year to have an accountability of the financial inflows and outflows, profit etc; Environmental auditing is a new concept, which would give the accountability of the issues related to the Environment. This would help in comparing the data gathered together in the subsequent years of raw material consumption and water consumption and this would help in reducing the same to the best possible extent.

Environmental audit is an exercise of self- assessment to minimize the generation of wastes and pollution potential.

Environmental audit is a technique being introduced for integrating the interest of the industry and the environment, so that these could be mutually supportive. This technique is basically a part of industries internal procedures in meeting their responsibilities towards a better environment. Also the policy statement for abatement of pollution by the Government of India provides for submission of environment statement by all concerned industries, which would subsequently evolve into an environmental audit.

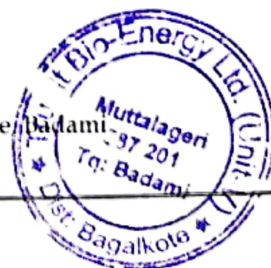
Objectives

The Environmental Audit helps in pollution control, improved production safety and health and conservation of natural resources and hence its overall objectives can be stated as achievement of sustainable development.

The Objectives of an Environmental Audit in an Industry are:

- A. To determine the mass balance of various materials used and the performance of various process equipment so as to identify usage of materials in excess than required. To review the conversion efficiency of process equipment and

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accordingly fix up norms for equipment/operation performance and minimization of wastes.

- a) To identify the areas of water usage and wastewater generation and to determine the characteristics of wastewater.
 - b) To determine the solid wastes and Hazardous wastes generated, their sources, quantities and characteristics.
 - c) To determine the possibility of wastes minimization, recovery and re-cycling of wastes.
- B. To identify the possibility of waste minimization, recovery and re-cycling of Wastes.
- C. To determine the performance of the existing waste treatment/control system so as to modify or install additional or alternative control equipment accordingly.

The submission of an Environmental Statement is applicable to the following:

- a) Those who require consent under Water (Prevention and Control of Pollution), Act, 1974.
- b) Those who require consent under Air (Prevention and Control of Pollution), Act, 1981.
- c) Those who require authorization under Hazardous Wastes (Management and Handling) Rules, 1989.

General Information

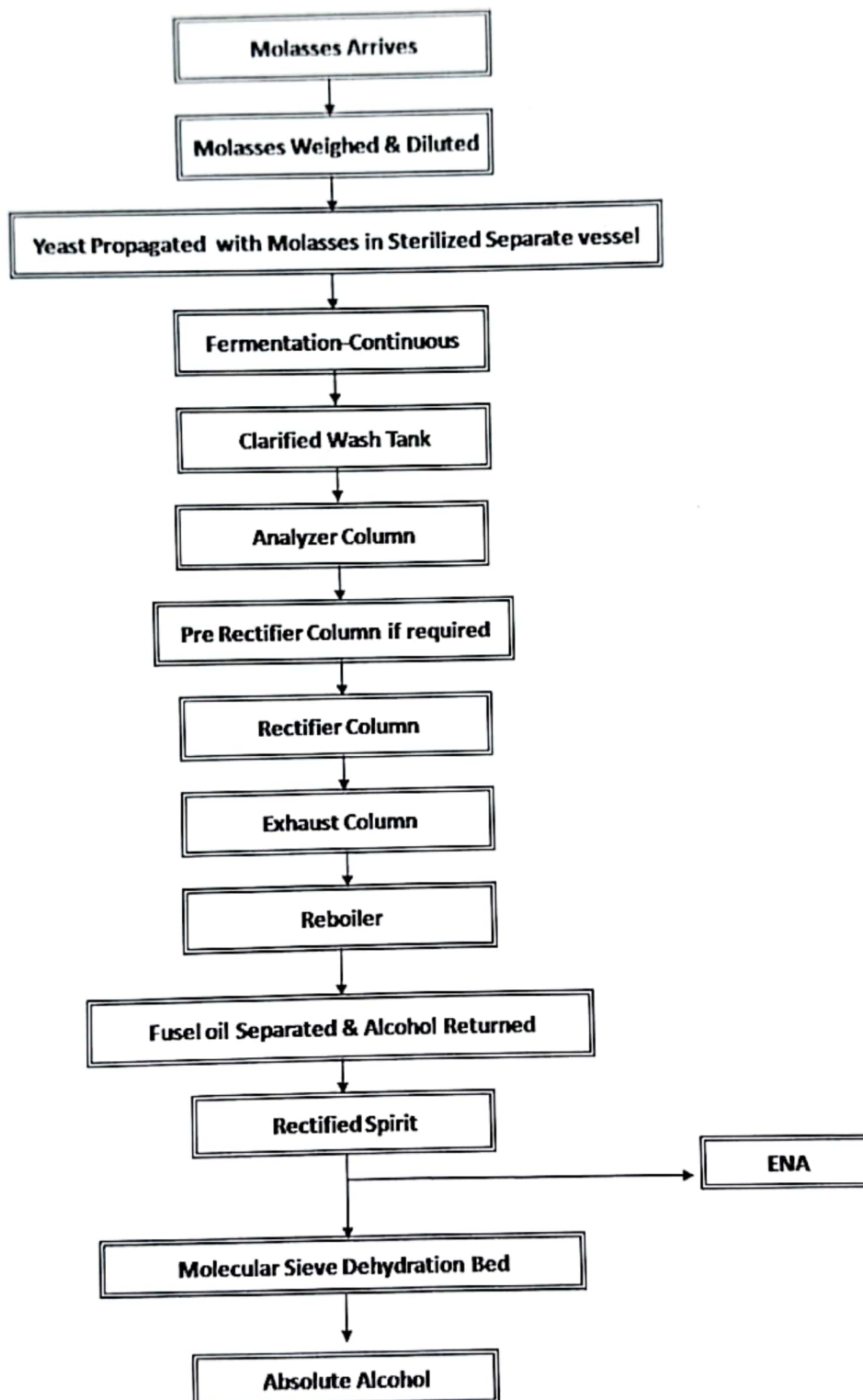
Name of the Industry	M/s. TRUALT BIOENERGY LIMITED, UNIT-5
Factory Address	M/s. TRUALT BIOENERGY LIMITED, UNIT-5 Muttalgeri-Badami village, Badami Taluk, Bagalkot District, Karnataka State
Type of Industry	200 KLPD distillery plant Size: Large Category: Red

M/s. TruAlt Bioenergy Limited., Unit-5, Muttalgeri-Badami village, Badami



Process Details

PROCESS DETAILS



M/s. TruAlt Bioenergy Limited., Unit-5, Muttalgeri-Badami village, Badami



ENVIRONMENTAL POLLUTION CONTROL IN THE INDUSTRY

AIR ENVIRONMENT

- Emissions from 65 TPH bagasse, spent wash concentrate fired boilers connected with ESP and chimney of 90 mtrs AGL to meet an outlet particulate concentration of less than 50 mg/Nm³

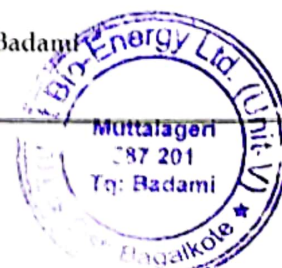
WATER ENVIRONMENT

- The water required for process is drawn from Malprabha River. The industry has obtained the permission from irrigation Department.
- Waste water generation is about 1541 KLD from distillery unit. The spent wash is concentrated in multiple effect evaporators (MEE) and the concentrate is incinerated in the incinerator boilers.
- The condensate is taken to condensate polishing unit consisting of RO. The permeate generated from RO is reused in the process and RO reject is used for floor washing and fermenter cleaning.

NOISE ENVIRONMENT

- The green belt (plantation of dense trees along the boundary) will help in absorbing noise generated due to plant mechanism and transportation.
- All rotating equipments are / shall be well lubricated and provided with enclosures to reduce noise transmission.
- Noise attenuating devices like ear plugs and ear muffs are provided to employees exposed to high noise levels.
- DG sets are kept in acoustics enclosures so that effect of noise is reduced.
- Adequate fire Protection measures as per Department of Factories & Boilers.
- On site Emergency plan.

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SOCIO ECONOMY

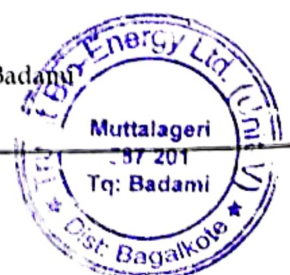
- Staff quarters located at the site.
- Facilities like electricity water, electricity, toilets, first-aid, primary health centre, school, play gardens, Auditorium, temple
- Regular health check-up, mediclaim, PPE, safety gadgets.
- Ambulance
- Transportation facilities to employees and school children.

THE ENVIRONMENTAL POLICY

The company is committed to continual improvement in its Environmental performance through.

- Compliance with legislative requirements
- Prevention of pollution to reduce impact on Air, Water and Soil.
- Conservation of natural resources for sustained development.
- Substitution of chemicals which are not eco-friendly.
- Education, Training and Motivation of personnel to carry out their tasks in an environmentally responsible manner.
- Plantation of trees for ecological balance.
- Regular reviews and audits of the Environmental Management Systems.

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FORM- VEnvironmental Statement for the financial year ending 31st March 2026**PART- A**

i.	Name and address of the owner/ occupier of the industry operation or process	M/s. TRUALT BIOENERGY LIMITED, UNIT-5 Muttalgeri- Badami Village, Badami Taluk, Bagalkot District, Karnataka State
ii.	Industry category	Category: Red; Size: Large
iii.	Production category - Units	200 KLPD Molasses, & Syrup based distillery • 200 KLPD ENA/RS/Ethanol
iv.	Year of establishment	2025
v.	Date of the last environmental statement submitted	NA
vi.	No. of Employees	110 No's

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PART-B**Water and Raw Material Consumption****I) Water Consumption in cu. m / Day**

Source	Water Consumption	
	During the Current Financial Year 2024-25	During the Current Financial Year 2025-26
Process	-	820
Cooling Tower	-	41
Boiler Feed	-	95
Domestic	-	10
Total	-	966

II) Raw Material Consumption

Products	Raw Materials	Consumption of raw material	
		During the current financial year 2024-25	During the current financial year 2025-26
Distillery plant	Molasses & Syrup	-	10771 MT
	Sulfuric acid,	-	5900 MT
	Nutrients, N, P,	-	431 kg
	SMBS	-	943 kg
	De-foaming Paste	-	926 kg

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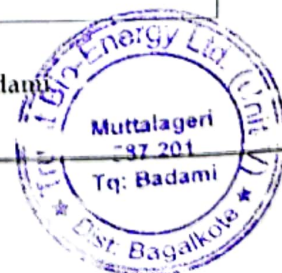
PART-C**Pollution discharged to Environment per unit of output**

(Parameters as specified in the consent issued) (Please Refer Analysis Report)

Pollutants	Quantity of pollutants discharged (mass/day)	Concentration of pollutants discharged (Mass/Volume)	Concentration Discharged (Mass/Day)	Percentage of variation from prescribed standards with reasons
- Domestic effluent is treated in septic tank and soak pit. - Waste water generation is about 1541 KLPD from distillery unit. The spent wash 1200 KLPD is concentrated in multiple effect evaporator (MEE) and the concentrate is incinerated in the incinerated boiler. - The remaining distillery lean effluent such as spent lees, condensate, boiler blow-down, cooling tower, blow-down & other shall be treated in existing CPU's of plant capacity 2100 with 2 stage RO system. The treated water shall be completely recycled for the process utilities. - Monitoring of the characteristics of effluent washings will be outsourced to KSPCB empanelled laboratories. Monitoring reports are enclosed				

Air Pollutants	Source	Quantity of Pollutants discharged per day Mass / day	Concentration of Pollutants discharged Mass / volume	Percentage of variations from prescribed standards with reasons
Emissions from 65 TPH bagasse, spent wash concentrate fired boiler connected with ESP and chimney of 90 mts AGL to meet an outlet particulate concentration of less than 50 mg/Nm³				

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PART-D**Hazardous Waste**

(As specified under the hazardous waste/ management and handling rules, 1989)

Hazardous Waste	Category	Total Quantity (Kg)	
		During the Current Financial Year 2024-25	During the Current Financial Year 2025-26
a) From Process	5.1	---	0.050 KL
	5.2	----	0.010 MTA
	33.1	-----	0.30 MTA
b) From Pollution Control facilities		Nil	Nil
Used oil & grease from DG set & machineries is collected in leak proof containers (MS drums) & used for Belt Conveyors as lubricants.			

PART-E**Solid Wastes**

Solid waste	Total quantity (Tonnes)	
	During the financial year 2024-25	During the financial year 2025-26
1. From Process	--	-
a) Bottom ash (Cogen)	--	45 TPD
b) Fly ash (Cogen)	---	104 TPD
c) Yeast sludge (Process)	---	860 MT

Bottom ash is handed over to brick manufacturers/member farmers and yeast sludge is used in the composting by farmer.

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PART-F

Please specify the characterization (in terms of Composition and quantum) of Hazardous as well as Solid wastes indicating disposal method adopted for both these categories of wastes.

The hazardous waste generated is Used Oil & grease from the D.G set & machineries. It is collected in leak proof sealed drums and used for Belt Conveyors as a Lubricant. Solid waste in the plant from process (yeast sludge) & from boiler fly ash & bottom ash. Yeast sludge is used in composting & boiler ash sold to brick manufacturer & member farmers for composting.

PART-G

Impact of the pollution abatement measures taken on the conservation of natural resources and on the cost of production

- Waste water generation is about 1541 KLD from distillery unit. The spentwash 1200 KLD is concentrated in multiple effect evaporator (MEE) and the concentrate 399 KLPD is incinerated in the incinerated boilers, which will have considerable calorific value. Thus saving in fuel consumption.
- The condensate is taken to condensate polishing unit consisting of RO. The permeate generated from RO is reused in the process and RO reject is used for floor washing and fermenter cleaning, this reduces the fresh water consumption, thus pollution abatement measures taken by industry will help in conservation of natural resources and on the cost of production.

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PART-H

Additional measures/investment proposals for Environmental protection including abatement of pollution, prevention of pollution

Environmental protection and pollution control has been the priority for the industry. Any suggestions or improvements made by the Karnataka State Pollution Control Board will be accepted and suitably implemented.

- Domestic effluent is treated in Septic Tank and Soak Pit,
- Emissions from boiler pass through ESP & chimneys of sufficient stack heights, as specified by the Board. Process emissions are passed through air pollution control devices safeguarding the local air environment.
- DG sets are equipped with adequate acoustic enclosures, maintaining healthy ambient noise levels.
- Monitoring is outsourced to KSPCB empanelled laboratories.

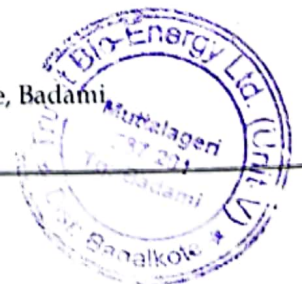
PART-I

Any other particulars for improving the quality of the environment

Constant efforts will be made in making use of the updated technologies in reducing the pollutant generation from the industry so as to avoid negative impacts on the Environment.

- The industry has developed sufficient green belt area within the plant premises, so as to attenuate air pollutants & elevated noise levels.
- Housekeeping inside work environments is being improved.
- We have installed Electrostatic precipitator to the 65TPH incineration boiler in the distillery plant by M/s Thermodyne Limited. Total investment made for the installation of ESP is Rs. 5.0 Crores (Including Civil, Ash handling, Lagging, Ducting & Erection cost).

M/s. TruAlt Bioenergy Limited., Unit-5, Muttalgeri-Badami village, Badami



- We have installed and invested nearly Rs. 25 lakhs rupees for online monitoring system to the boilers stacks to monitor particulate matter (PM) parameter, SO₂ & NO_x 2 No's camera to visualize Spent wash lagoons & tanks & 2 No's of flow meters to monitor Concentrated spent wash to boiler and Spent wash generation. All online system is connected to CPCB/KSPCB server.



M/s. TruAlt Bioenergy Limited., Unit-5, Muttalageri-Badami village, Badami