

ENVIRONMENTAL STATEMENT

For

Financial Year: 2024-25

**M/s YTT.INDUSTRIES PVT LTD
MFG UNIT- VILLAGE- PATNA DEVKALI &
DARANAGAR
ARTHARI, TEHSIL-KALAN
DISTRICT- SHAHJAHANPUR
PIN CODE-242127**

-----Prepared By-----

**YTT INDUSTRIES PVT. LTD.
ENVIRONMENT DEPARTMENT**

Contact-7905872182 & ethanol@yttgroup.co.in

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Objective and Introduction of Environmental Statement

The Ministry of Environment, Forests & Climate Change (MoEFCC), Govt. of India vide notification no. G.S.R. 329 (E) dated 13.03.2092 and G.S.R. 386 (E) dated 22.04.2093 made some amendments and inserted/substituted “**Rule-14. SUBMISSION OF ENVIRONMENTAL STATEMENT**” in the Environment (Protection) Rules, 1986 framed under the Environment (Protection) Act, 1986.

Rule 14 of the above stated reads as under:-

Every person carrying on an industry, operation or process requiring consent under Section 25 of the Water (Prevention and Control of Pollution) Act, 1974 (6 of 1974) or under section 21 of the Air (Prevention and Control of Pollution) Act, 1981 (14 of 1981) or both or authorization under the Hazardous And Other Wastes (Management and Trans-boundary Movement) Rules, 2016 issued under the Environment (Protection) Act, 1986 (29 of 1986) shall submit an environmental statement for the financial year ending the 31st March in Form V to the concerned State Pollution Control Board on or before the 17 thirtieth day of September every year, beginning 1993.

Accordingly to the said rule, each and every industry is required to submit ‘Environmental Statement’ by 30th September every year for the preceding financial year ending 31st March. Environmental statement is a process of self-inspection & future planning for improvement in processes and reduction in pollution/waste over the last year.

Ethanol was rarely discussed in the country about 8-10 years ago. But now ethanol has become of the major priorities of this current century of India. Govt. has decided to achieve the target of 20% ethanol blending in petrol by 5 years. Focus on ethanol has impacted the environment protection, economic interests of Indian Farmers etc and ultimately meet the country energy requirement. Govt. of India has announced and formulated several beneficial policies to promote the production of ethanol in the country and to meet the requirement of blending with petrol. Ethanol may be produced as by-product during the process of making grain from grain. this grain may be used as raw material for ethanol production.

M/s YTT Industries Pvt Ltd District- Shahjahanpur (U.P) manufacturing unit since last more than 1 year.

GENERAL INFORMATION

1	This is grain based distillery and manufacturing Ethanol to blend in petrol.
2	Environmental Clearance also has been obtained from State Level Authority vide reference: F. No.-IA-J-11011/29/2023, dated 23.03.2023.
3	The unit is having valid Consent-to-Operate (CTO) under the Water Act, 1974 & the Air Act, 1981 and valid up to 31.12.2028.
4	The unit has obtained NOC for abstraction of ground water from CGWA. Ground water Abstraction permitted: 640 m ³ /day.
5	Unit is maintaining Zero Liquid Discharge (ZLD) norms as prescribed by the CPCB. Using thin slope followed by MEE, CPU, UV and Softener process.
6	The unit is complying with the notified effluent standards by achieving ZLD.
7	Ensuring all norms & standards prescribed by CPCB for grain based attached distillery.
8	<p><u>Manufacturing Process in brief:</u></p> <p>The basic raw material of the unit is Grain from the market. The grain are lifted from market and stored in silo and warehouse of distillery, mono sugar present in the grain are easily consumed by micro-organism yeast and during their life cycle biological reaction take place called fermentation process, followed liquefaction and distillation process and then producing Ethanol.</p>
9	<p><u>Effluent Treatment in brief:</u></p> <p>Spent-wash was being generated from manufacturing process, after dryer goes in Multi Effect Evaporator (MEE) and the MEE concentrate was goes for drayer. MEE condensate, Cooling tower blow down and boiler blow down was treated in Condensate Polishing Unit (CPU). CPU comprises of mixing tank, Buffer tank ,Anaerobic Reactor, Aeration tank, Holding tank, Ultra-Violet filtration and softener plant.</p>

[Form-V]

(See rule-14)

Environmental Statement for the Financial Year ending on 31st MARCH 2025.
PART-A

Sl. No.	ITEMS	INFORMATION
1	Name & Address of the Owner/ Occupier of the Industry, Operation or Process	Sri Shivam Goyal, M/s YTT.INDUSTRIES PVT LTD MFG UNIT- VILLAGE- PATNA DEVKALI & DARANAGAR ARTHARI, TEHSIL-KALAN DISTRICT- SHAHJAHANPUR PIN CODE-242127 Email- ethanol@yttgroup.co.in
2	Industry category Primary (STC Code), Secondary (STC Code)	Petro program of the government of india shellary concider under B2 category.
3	Production Capacity	160 KLPD
4	Year of Establishment	2024

PART-B**Water and Raw Material Consumption****(i) Water Consumption (m³/day): 615.00**

Process	570
Cooling	30
Domestic	15

Name of Products	Water Consumption Per Unit of Products	
	During the Current Financial year: 2024-25	
Ethanol	4.0 lit/BL of Product.	

(ii) Raw Material Consumption:

Name of Raw Materials	Name of Products	Consumption of raw-material per unit of output	
		During the Current Financial year: 2024-25	
Grain	Ethanol	25.5 quintal /kl of product.	

PART-C

Pollution discharged to environment/unit of output

(Parameters as specified in the consent issued)

(1)	Pollutants	Quantity of Pollutants discharged (mass/day)	Conc. of Pollutants in discharge (mass/Vol.)	Percentage of Variation from prescribed standard with reasons
(a)	Discharge			
	pH	No discharge	No discharge	-(Zero discharge was being maintained)
	Suspended Solid/ Matter	No discharge	No discharge	-(Zero discharge was being maintained)
	BOD (3 days 27°C)	No discharge	No discharge	-(Zero discharge was being maintained)
	COD	No discharge	No discharge	-(Zero discharge was being maintained)
(b)	Emission			
	Particulate matters	74.36 kg/day	112 mg/Nm ³	74% below the prescribed standard:150 mg/Nm ³
	Sulphar dioxide	6.36 kg/day	154 mg/Nm ³	25.6% below the prescribed standard:600 mg/Nm ³
	Oxides of nitrogen	23.69 kg/day	62.8 mg/Nm ³	20.93% below the prescribed standard:300 mg/Nm ³

PART-D

Hazardous Wastes

[As specified under the Hazardous and Other Wastes (Management and Trans-boundaryMovement) Rules, 2016]

	Hazardous Wastes	Total Quantity (Kg)	
			During the Current Financial year:2024-25
	(a) Form Process		Not applicable
	(b) From Pollution Control Facilities		No hazardous wastes are generated as specified under the Hazardous and other Wastes (Management and Transboundary Movement) Rules, 2016.

PART-E

Solid Wastes

Source	Total Quantity (MT)	
		During the current financial year: 2024-25
(A) Form Process		
1. Fermenter sludge		0 MT
2. Boiler ash		4800 MT
(B) From Pollution Control Facilities		
(C) Quantity Recycled or Re-utilized		Re – utilized (used to drayer)
1. Fermenter sludge		0 MT.
2. Boiler ash		4800 MT Used at land filling.

PART-F

Impact of Pollution Control Measures on Conservation of Natural Resources and Consequently on the Cost of Production.

Industry is operated under ZLD scheme in which, Distillation Plant is followed by Dryer with 3 nos. decanter then Multi effect evaporator 5 nos. FF body with one Force body and one surface condenser than DCC and flesh vapor for its steam requirements. E.S.P. is installed for boiler to meet out emission norms of PCB. AS ZLD thin slop condensate is treated in CPU plant followed with softener U.V. and DM Plant.

High brix thin slop syrup is used in dryer section to produced DDGS.

PART-G

Additional Investment Proposal for Environmental Protection including Abatement of Pollution.

- There is one MS stack of height-60m in the unit and attached with 40 TPH boiler with wet-scrubber,ESP as pollution control device. Bagasse & Rice husk was being used as fuel.
 - Unit has installed Online Continuous Emission Monitoring System (OCEMS) which was linked with CPCB and BSPCB server. In addition Web-cameras were also installed at various locations in reference to ZLD.
 - Green belt was under process.
 - “The Green Environment is Healthy Environment” we all are bounded to take each and every responsibility to control and protect Environment. On world Environment Day we arrange tree plantation program to create awareness about Environment among the workers as well as common people.
 - We have planted 2500 nos, of sapling in our premises & outside during the FY 2024-25 under green belt development programme.
 - Made adequate arrangement of water sprinkling by manually also to suppress any chance of spreading particulate matter of Bagasse handling area and storage yard.
 - Ensured no environmental issues to the area surrounding by nearby human population and commercial activities.
 - The parameter of AAQ was found to be within the prescribed limit as monitoredThe stack emission was also monitored on and found that particulate emission was well within prescribed limit.
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PART-H

Any other particulars in respect of environmental protection and abatement of pollution.

1. We have provided 5th stage MEE (Multi Effect Evaporation) system to maintain the parameters of evaporated condensate, resulting smooth operation of CPU.
 2. We have provided condensate polishing unit having Bio Digester, ultra filtration followed by Softener and UV Plant to maintain ZLD norms.
 3. We have provided Ambient Air Quality Monitoring System & Noise level at up wind & down wind direction and installed Digital display at Distillery gate as per instruction of BSPCB.
 4. We have provided Ultra Violet (UV) system at CPU plant and treated water of UV is utilizing in fermentation feed instead of raw water.
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