



DETAILED PROJECT REPORT

**For Add on Grains Investment
in TBL Unit 4 (Kerakalmatti),
Bagalkot District, Karnataka**

PREPARED FOR

TRUALT BIOENERGY LIMITED (TBL)

PREPARED BY



ITCOT Limited

(Joint Venture of IFCI, SIPCOT, TIIC, SIDCO & BANKS)
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SEPTEMBER 2025

IMPORTANT NOTE

This detailed project report dated 05 September 2025 has been prepared specifically for the purpose of certifying the object section of the in the Red Herring Prospectus ("**RHP**") & and the prospectus ("**Prospectus**")intended to be filed by Trualt Bioenergy Limited ("**Company**", "**TBL**") with the Securities and Exchange Board of India (the "**SEBI**") and any relevant stock exchange(s) where the Equity Shares are proposed to be listed (the "Stock Exchanges") and the RHP and the prospectus intended to be filed with the Registrar of Companies, Karnataka at Bengaluru ("**RoC**") and thereafter filed with the SEBI and the Stock Exchanges, as well as in other documents in relation to the proposed initial public offering of the Company ("Offer" and collectively the "Offer Documents")to be filed by TBL in connection with its proposed Initial public offering.

This detailed project report to be submitted to SEBI, Stock Exchanges and RoC or such other regulatory and government authorities as may be required.

This detailed public report may be relied upon by the Company, book running lead managers ("**BRLMs**") and the legal counsel to each of the Company and the BRLMs in relation to the Offer.

For ITCOT Ltd



Amit Chaudhari

Vice President

ITCOT Limited

Pune Office: 303, Corporate Plaza,

Senapati Bapat Road, Shivajinagar, Pune - 411 016,

Maharashtra, India



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II	Purchase Order for Civil Works
III	Purchase Order /Proforma for Plant & Machineries

LIST OF ABBREVIATIONS

AA	Anhydrous Alcohol	IPO	Initial Public Offering
BRLMs	Book Running Lead Managers	ITCOT	ITCOT Ltd.
CCEA	Cabinet Committee of Economic Affairs	KL	Kilo Litres
CIN	Corporate Identification Number	KLPD	Kilo Litres Per Day
CIP	Cleaning In Place	KSPCB	Karnataka State Pollution Control Board
CO₂	Carbon Dioxide	KVA	Kilo Volt Amperes
CPU	Condensate Polishing Unit	M³	Cubic Meters
CTE	Consent to Establish	MoEFCC	Ministry of Environment, Forest and Climate Change
CUM	Cubic Meters	MSDH	Molecular Sieve Dehydration Plant
DCCO	Date of Commencement of Commercial Operation	MT	Metric tonnes
DCS	Distributed Control System	MW	Megawatt
DDGS	Distiller's Dried Grains Solubles	OPC	Ordinary Portland Cement
DFPD	Department of Food & Public Distribution	PESO	Petroleum & Explosives Safety Organization
DG	Diesel Generator	PHE	Plate Heat Exchanger
DPR	Detailed Project Report	RCC	Reinforced Cement Concrete
DWGS	Distiller's Wet Grains Solubles	RHP	Red Herring Prospectus
EAC	Expert Appraisal Committee	RMT	Running Meter
EC	Environmental Clearance	RoC	Registrar of Companies
EPC	Engineering, Procurement and Construction	RS	Rectified Spirit
ESY	Ethanol Supply Year	SHLCC	State High Level Clearance Committee
FE	Forced Circulation	SS	Stainless Steel
FF	Falling Film	SWOT	Strengths, Weaknesses, Opportunities, and Threats
FFL	Finished Floor Level	TBL	Trualt Bioenergy Ltd.
GoK	Government of Karnataka	TEV	Techno Economic Viability
GST	Goods and Services Tax	TG	Turbo Generator
Ha	Hectare	TPH	Tonnes per Hour
HTA	Heat Transfer Area	VDF	Vacuum Dewatering Flooring
IEM	Industrial Entrepreneur Memorandum	VLS	Vapor Liquid Solid
INR	Indian Rupee	WTP	Water Treatment Plant
		ZLD	Zero Liquid Discharge

EXECUTIVE SUMMARY

1.	NAME OF THE COMPANY	TRUALT BIOENERGY LTD (TBL)						
2.	DATE OF INCORPORATION	March 31, 2021						
3.	PROJECT	Utilizing grains as additional raw material in TBL Unit 4 located in Kerakalmatti, Bagalkot District, Karnataka						
4.	CONSTITUTION	Public Limited Company						
5.	PROJECT CATEGORY	Ethanol						
6.	INDUSTRY CLASS	Manufacturing						
7.	BACKGROUND OF THE PROJECT	Trualt Bioenergy Limited (TBL) is an Indian Company incorporated under the Indian Companies Act 2013, vide CIN: U15400KA2021PLC145978 dated 31.03.2021. TBL has planned to add grains (particularly maize) as additional feed-stock in one of their unit, i.e. TBL Unit 4 (Kerakalmatti). TBL Unit 4 is for additional capex for conversion of the syrup/molasses based mono feed operation which is already operational since December 2024. This project envisages adding the plant and machinery along with relevant civil works, required for processing the Grains (particularly maize) as an add on option to be used in the ethanol plant during the off-season, when sugar syrup & molasses would not be available.						
8.	LOCATION OF THE PROJECT & AVAILABILITY OF RAW MATERIAL	TBL has planned to add grains (particularly maize) as additional feed-stock as per details below: <table border="1" data-bbox="563 1496 1528 1617"> <thead> <tr> <th>Unit</th><th>Taluka</th><th>Proposed Grain Based Ethanol Capacity</th></tr> </thead> <tbody> <tr> <td>TBL Unit 4 (Kerakalmatti)</td><td>Badami</td><td>300 Kilo Litres Per Day (KLPD)</td></tr> </tbody> </table> The unit is syrup / molasses based ethanol unit and is operational since December 2024. The required land is already available & in possession of the Company. The same will be sufficient to cater the requirements for add on investment. Karnataka is the largest producer of Maize in India and the production estimates are increasing both due to the area of cultivation as well as increase in yield due to scientific improvements. The area under maize	Unit	Taluka	Proposed Grain Based Ethanol Capacity	TBL Unit 4 (Kerakalmatti)	Badami	300 Kilo Litres Per Day (KLPD)
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TBL Unit 4 (Kerakalmatti)	Badami	300 Kilo Litres Per Day (KLPD)						

		cultivation is recorded as approximately 17.50 lakh hectare (ha) with average annual production of 56.28 lakh tonnes in Karnataka. Also, within the Karnataka State the average annual paddy (rice) production is estimated about 67.45 lakh tonnes. This shows sufficient quantity of raw material is available for TBL.																																							
9.	PROJECT HIGHLIGHT	The need of the project is due to the fact that there is a huge gap between supply and demand of the product. The future demand and the gap will increase substantially due to the decision of Cabinet Committee of Economic Affairs (CCEA) headed by Honorable Prime Minister Narendra Modi on 30th December 2020. The Cabinet identified production of Ethanol a priority project and approved a modified scheme for extending the present interest subvention scheme to augment Ethanol production capacity from Grains such as Maize, Broken Rice, Sorghum etc. With recent development, the Government has announced the highest price payable for ethanol as Rs. 71.86/Litre for maize as feed-stock. Based on the said scheme, policy initiatives from Government & highest ethanol selling price for maize feedstock, TBL has planned to implement the additional grain-based facility at TBL Unit 4.																																							
10.	ESTIMATED DATE OF COMMENCEMENT OF COMMERCIAL OPERATION (DCCO)	January, 2026																																							
11.	BRIEF SYNOPSIS OF THE PROJECT	Design Parameters, Assumptions & Raw Material Balance <u>(For Add on Grain Operation Only)</u> <table border="1"> <thead> <tr> <th>Sr No.</th><th>Item</th><th>TBL Unit 4</th></tr> </thead> <tbody> <tr> <td>1</td><td>Ethanol Plant Capacity based on Maize as feed stock, KLPD</td><td>300</td></tr> <tr> <td>2</td><td>Operating Days, No. of Days</td><td>150</td></tr> <tr> <td>3</td><td>Annual Ethanol capacity in KL</td><td>45,000</td></tr> <tr> <td>4</td><td>CO₂ produced, MT</td><td>18,000</td></tr> <tr> <td>5</td><td>DDGS produced, MT</td><td>27,000</td></tr> <tr> <td>6</td><td>Ethanol Yield from Maize, Litres / MT</td><td>380</td></tr> <tr> <td>7</td><td>Maize required, MT</td><td>118,421</td></tr> <tr> <td>8</td><td>Steam Required, MT/KL of Ethanol</td><td>5.0</td></tr> <tr> <td>9</td><td>Total Steam required for number of days of Maize Processing, MT</td><td>225,000</td></tr> <tr> <td>10</td><td>Bagasse Requirement, MT</td><td>102,273</td></tr> <tr> <td>11</td><td>Consumables required, Rs. Per KL of Ethanol</td><td>150</td></tr> <tr> <td>12</td><td>Chemicals required, Rs. Per KL of Ethanol Produced</td><td>1,200</td></tr> </tbody> </table>	Sr No.	Item	TBL Unit 4	1	Ethanol Plant Capacity based on Maize as feed stock, KLPD	300	2	Operating Days, No. of Days	150	3	Annual Ethanol capacity in KL	45,000	4	CO ₂ produced, MT	18,000	5	DDGS produced, MT	27,000	6	Ethanol Yield from Maize, Litres / MT	380	7	Maize required, MT	118,421	8	Steam Required, MT/KL of Ethanol	5.0	9	Total Steam required for number of days of Maize Processing, MT	225,000	10	Bagasse Requirement, MT	102,273	11	Consumables required, Rs. Per KL of Ethanol	150	12	Chemicals required, Rs. Per KL of Ethanol Produced	1,200
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		13	Water required at 3 Cubic Meters per KL of Ethanol, M ³	1,35,000
12.	STATUTORY APPROVALS	TBL has received State High Level Clearance Committee (SHLCC) order from Govt of Karnataka, amended IEM License from Ministry of Commerce & Industry as well as Interest Subvention Approval from Department of Food & Public Distribution (DPFD) for cumulative capacity of 2800 KLPD at various units of TBL including TBL Unit 4 (where the approval is for 200 KLPD). For TBL Unit 4, the following licenses are obtained: 1. Environmental Clearance – Obtained. EC Identification No. EC24A2504KA5644002N dated 1st August 2024 2. Consents to Establish from KSPCB is received. License No. CTE-343294 dated 13th May 2024. 3. Consents to Operate from KSPCB for Syrup is received on 24th December 2024 4. PESO License received on 20th January 2025 Other licenses apart from the above, are elaborated in the relevant chapter.		
13.	RISK MITIGATION	Risk Factor	Mitigation	
		Availability of grains	TBL shall deploy dedicated team for procurement of grains. They will be maintaining close liaison and relations with both farmers and merchant suppliers besides making prompt payments. The average area under maize cultivation is recorded as approximately 17.50 lakh hectare (ha) with average annual production of approximately 56.28 lakh tonnes in Karnataka. The average annual paddy (rice) production is estimated about 67.45 lakh tonnes within the State. This shows sufficient quantity is available for TBL.	
		Availability of land and water	The required land is already in available & in possession of the Company. The same will be sufficient to cater the requirements for add on investments. Water license for TBL Unit 4 is already applied.	
		Delay in obtaining the necessary clearances	For TBL Unit 4, the following licenses are obtained: 1. Environmental Clearance – Obtained. EC	

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		Project cost overrun	The Performance Guarantees and Liquidated damages clauses from the EPC contract will take care of the Cost & Time overrun of the Project.															
		Natural calamities	Complete plant needs to be insured and also care has been considered while designing and construction of the plant to minimize the impact															
14.	PROJECT COST	Rs. In Lakhs <table><thead><tr><th>Sr. No</th><th>Item</th><th>TBL UNIT 4 300 KLPD</th></tr></thead><tbody><tr><td>1.</td><td>Civil works</td><td>2,200.00</td></tr><tr><td>2.</td><td>Plant & Machinery</td><td>14,313.00</td></tr><tr><td>3.</td><td>Miscellaneous fixed assets</td><td>755.00</td></tr><tr><td></td><td>Total</td><td>17,268.00</td></tr></tbody></table> * Inclusive of taxes		Sr. No	Item	TBL UNIT 4 300 KLPD	1.	Civil works	2,200.00	2.	Plant & Machinery	14,313.00	3.	Miscellaneous fixed assets	755.00		Total	17,268.00
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15	PROJECT COST FUND DEPLOYMENT SCHEDULE	Fund Deployment Schedule <table><thead><tr><th>Sr. No.</th><th>Particulars</th><th>FY26 (in Rs. Lakhs)</th><th>FY27 (in Rs. Lakhs)</th></tr></thead><tbody><tr><td>1</td><td>TBL Unit 4</td><td>17,268.00</td><td>Nil</td></tr></tbody></table>		Sr. No.	Particulars	FY26 (in Rs. Lakhs)	FY27 (in Rs. Lakhs)	1	TBL Unit 4	17,268.00	Nil							
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1	TBL Unit 4	17,268.00	Nil															

1. INTRODUCTION

1.1 COMPANY BACKGROUND

Trualt Bioenergy Limited (TBL) is an Indian Company incorporated under the Indian Companies Act 2013, vide CIN: U15400KA2021PLC145978 dated 31.03.2021.

TBL is already operating Ethanol Plants at five locations in Bagalkot District of Karnataka State, with a total installed Ethanol Capacity of 2000 KLPD and operational capacity of 1800 KLPD.

1.2 PROJECT PREPAREDNESS AT A GLANCE

TBL has received State High Level Clearance Committee (SHLCC) order from Govt of Karnataka, amended IEM License from Ministry of Commerce & Industry as well as Interest Subvention Approval from Department of Food & Public Distribution (DPFD) for cumulative capacity of 2800 KLPD at various units of TBL including TBL Unit 4 (where the approval is for 200 KLPD).

For TBL Unit 4, the following licenses are obtained:

1. Environmental Clearance – Obtained. EC Identification No. EC24A2504KA5644002N dated 1st August 2024
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Other licenses apart from the above, are elaborated in the relevant chapter.

Appendix - I gives the copies of approvals received for proposed project of TBL Unit 4.

2. OBJECTIVE AND METHODOLOGY OF THE STUDY

2.1 OBJECTIVES

The objective of this study is to conduct a Detailed Project Report for add on grains investment at TBL Unit 4 located at Kerakalmatti, Bagalkot District, Karnataka.

The project report is prepared for the purpose of certifying the objects section of the RHP/ the Prospectus to be filed by TBL in connection with its proposed Initial public offering.

2.2 REPORT COVERAGE

The DPR broadly covers the following aspects

Management Aspects

- Profile of the Company

Technical Aspects

- Assessment of the Location
- Raw Material Availability
- Assessment of the technical specifications
- Statutory approvals and regulatory approvals requirement
- Review of the implementation schedules
- Preparation of SWOT Analysis
- Identification of key managerial factors
- Risk assessment & Mitigation

Financial aspects

- Estimation of the capital project cost / capital investment of the proposed add on project

2.3 METHODOLOGY ADOPTED

The methodology adopted for the DPR is given below:

- ITCOT submitted a detailed checklist to TBL for preparation of DPR
- ITCOT's team of technical & financial experts and associates, made desk research, reviewed the physical progress at sites and held detailed discussion on the project viz. Technology source / technical parameters, demand assessment, financial investment.
- ITCOT obtained relevant inputs / data / information on the project and the infrastructure required to establish the project.

3. PROMOTERS & FINANCIALS OF THE COMPANY

3.1 PROMOTERS OF TBL:

The promoters of TBL are Mr. Vijaykumar Murugesh Nirani, Mr. Vishal Nirani & Mrs. Sushmitha Vijaykumar Nirani.

3.2 FINANCIALS :

3.2.1 The balance sheet of the company is as shown below:

	Rs. Lakh	
Particulars	Consolidated Statement as on 31 Mar 2025	Consolidated Statement as on 31 March 2024
ASSETS		
Non-Current Assets		
Property, plant and equipment	1,67,999.78	1,27,635.01
Capital work-in-progress	277.63	20,125.37
Goodwill	5,159.38	5,159.38
Other intangible assets	8,748.57	9,874.10
Right of use assets	678.34	
Financial assets		
Other financial assets	193.02	
Deferred tax assets (net)	-	75.65
Other non-current assets	13,696.35	13,225.35
Total Non-Current Assets	1,96,753.07	1,76,094.86
Current Assets		
Inventories	21,021.04	15,948.42
Financial assets		
Trade receivables	33,926.65	29,821.34
Cash and cash equivalents	14,977.64	2,335.04
Bank balance other than Cash and Cash Equivalents	-	5.00
Investments	436.08	1,000.02
Other Financial Assets	1,617.30	551.07
Government grant	9,835.07	5,040.76
Income Tax Assets (net)		399.15
	179.74	
Other current assets	24,226.50	10,712.42
Total Current Assets	1,06,220.02	65,813.22
Total Assets	3,02,973.09	2,41,908.08

Particulars	Consolidated Statement as on 31 Mar 2025	Consolidated Statement as on 31 March 2024
EQUITY AND LIABILITIES		
Equity		
Equity share capital	7,063.16	6,107.58
Other equity	69,836.74	20,353.08
Total equity	76,899.90	26,460.66
Liabilities		
Non-Current Liabilities		
Financial liabilities		
Borrowings	1,11,715.50	97,958.23
Lease Liabilities	519.70	-
Other financial liabilities	0.40	0.40
Provisions	324.66	198.99
Other non-current liabilities	760.16	613.67
Deferred tax liability (net)	8,002.81	10,528.03
Total Non-Current Liabilities	1,21,323.23	1,09,299.32
Current Liabilities		
Financial liabilities		
Borrowings	43,252.31	70,509.95
Lease Liabilities	166.46	-
Trade payables		
i) total outstanding dues of micro enterprises and small enterprises	1,339.11	23.93
ii) total outstanding dues of creditors other than micro enterprise and small enterprise	47,231.76	15,338.46
Other financial liabilities	12,506.94	20,044.01
Other current liabilities	228.61	217.04
Provisions	24.77	14.71
Total Current Liabilities	1,04,749.96	1,06,148.10
Total Liabilities	2,26,073.19	2,15,447.42
Total Equity and Liabilities	3,02,973.09	2,41,908.08

3.2.2 The profit & loss statement of the company is as shown below:

Particulars	Consolidated Statement as on 31 Mar 2025	Consolidated Statement as on 31 March 2024
Income		
Revenue from operations	1,90,772.40	1,22,340.47
Other income	6,080.38	5,678.30
Total Income	1,96,852.78	1,28,018.77
Expenses		
Cost of material consumed	1,04,157.66	77,150.73
Purchase of stock-in-trade	28,286.34	3,842.00
Changes in inventories of finished goods	(5,281.94)	(598.48)
Employee benefits expense	3,985.76	2,431.58
Finance costs	14,361.10	14,307.61
Depreciation and amortization expense	6,689.37	5,691.79
Other expenses	28,710.21	20,706.13
Total expenses	1,80,908.50	1,23,531.36
Profit/(loss) before tax	15,944.28	4,487.41
Tax income/(expense)		
Current tax	-	-
Deferred tax	(1,280.43)	(1,306.62)
Total income tax income/(expense)	(1,280.43)	(1,306.62)
Profit/(loss) after tax for the year/period	14,663.85	3,180.84
Other comprehensive income		
Items that will not be reclassified to profit or loss		
Re-measurement gain/(loss) on defined benefit plans	0.53	(10.93)
Income tax effect on the above	(0.13)	2.70
Net other comprehensive income/(loss) not to be reclassified to profit or loss in subsequent year	0.40	(8.23)
Total other comprehensive income/(loss) for the year	(8.23)	(8.23)
Total comprehensive income/(loss) for the periods/year	14,664.25	3,172.61
Earnings/(loss) per share		
Basic earnings/(loss) per share (INR)	20.94	4.25
Diluted earnings/(loss) per share (INR)	20.94	4.25

4. PROJECT LOCATIONS & INFRASTRUCTURE

4.1 SITE LOCATIONS

The details of project location & infrastructure details of TBL Unit 4 are as below:

Item	TBL Unit 4
Location	Kerakalmatti, Dist - Bagalkot
Survey Nos.	Survey No 10/3 to 10/6 (New Sy No 10/20), 10/7, 10/08 (New Sy No 10/19), 10/9, 10/10 (New Sy No 10/17), 10/11, 10/12 (New Sy No 10/18), 10/13, 10/15 (Ganganaboodhihala Village), 37/2 to 37/5, 36/4 & 36/5(Jalageri Village)
Grain Based Ethanol Plant Capacity	300 KLPD
Nearest Village	Kerakalamatti
Nearest Town	Bagalkot, 15 km
Nearest Railway Station	Bagalkot 15 km
Nearest River	Ghataprabha river, 17 km
Nearest Police Station	Kerur, 10km
Nearest Post Office	Kerakalmatti, 2km
Nearest Fire Engine	Bagalkot, 15km
Nearest Power Sub-Station	Kerakalamatti, 3 km
Nearest City	Bagalkot- 15 km
Nearest Airport	Hubli, 115 km
Nearest Seaport	Goa – 250 kms
Land for TBL's ethanol Project (Including the grain based project)	17 Acres, 11 Guntas

4.2 LAND AVAILABILITY

The required land is already available at TBL Unit 4 & in possession of the Company. The same will be sufficient to cater the requirements for add on investments.

Item	TBL Unit 4
Land for TBL's ethanol Project (Including the grain based project)	17 Acres, 11 Guntas

4.3 INFRASTRUCTURE

The project locations are easily accessible by Bagalkot city. The project locations are also near to the perennial source of water from the river, Roads, Railway Lines. It has captive power facility which will cater the power requirement of the proposed plant. There is ample manpower available in the area.

The site has also easy access to latest communication and other social infrastructure facilities, including Telecommunication, medical & health facilities, etc.

4.4 MAIZE & PADDY (RICE) AVAILABILITY IN COMMAND AREA

The top three states that account for the highest area under maize cultivation are Karnataka, Maharashtra and Madhya Pradesh. Various soil types, from loamy sand to clay loam, can support the growth of maize. A higher level of productivity is thought to be possible with soils that have higher organic matter, good water-holding capacity, and a neutral pH. In Karnataka, Maize is cultivated in an average area of 17.50 lakh hectare (ha) with an average annual production of 56.28 lakh tonnes with an average productivity of 3216 kg/ha. It comes up well under a wide range of soil and climatic conditions.

The State has nearly 1.5 million ha under rice cultivation, with average productivity of 3.4 tonnes/ha. Also, within the Karnataka State the average annual paddy (rice) production is estimated about 67.45 lakh tonnes.

This shows, sufficient quantity of raw material is available in the market.

TBL shall deploy dedicated team for procurement of grains. They will be maintaining close liaison and relations with both farmers and merchant suppliers besides making prompt payments.

5. TECHNICAL ASPECTS OF THE PROJECT

5.1 ETHANOL PLANT DESIGN BASIS

The Design parameters & assumptions along with Raw Material Balance for the proposed add on grains facilities for TBL Unit 4 is given below:

Design Parameters & Assumptions (Grain Operation):

Sr No.	Item	TBL Unit 4
1	Ethanol Plant Capacity based on Grain as feed stock, KLPD	300
2	Operating Days on Grains (excluding plant operation on Sugar Syrup + Molasses)	150
3	Annual Ethanol plant capacity with Maize, in KL	45,000
4	By-Product 1: CO ₂ produced at 40 % of Ethanol produced, MT	18,000
5	By-Product 2: DDGS produced at 0.60 MT per KLPD of Ethanol generated, MT	27,000
6	Ethanol Yield from Maize, Litres / MT	380
7	Maize required as Feed-Stock, for 150 Days, (Sr No 3 x 1000 Litres / Sr No 6)	1,18,421
8	Steam required for Process & Boiler auxiliaries, cleaning, losses, etc. MT/KL of Ethanol	5.0
9	Total Steam required for number of days of Maize Processing, MT (Sr. No.3 x Sr.No.8)	2,25,000
10	Bagasse as fuel Required for producing the required quantity of Steam, MT (Sr No 9 / Steam to Fuel Ratio of 2.2)	1,02,273
11	Consumables required, Rs. Per KL of Ethanol Produced	150
12	Chemicals required, Rs. Per KL of Ethanol Produced	1,200
13	Water required for the entire process at 3 Cubic Meters per KL of Ethanol, M ³	1,35,000

The projects will be based on the grains, particularly maize & rice as feedstock. Other starchy feedstocks like wheat, barley, sorghum etc can also be used for ethanol generation.

The above table assumes Maize as a base grain feed. In case broken rice is used these numbers may vary depending on each type of grain and the input and output ratio, as below:

Particulars	Maize as Feedstock	Rice as Feedstock
Output of ethanol in Litre every one tonnes of grain as input	380 Litre	440 Litre
Average Selling Price of Ethanol Rs./Litre as per Govt notification for ESY 2023-24	71.86	64.00
Output of DDGS in tonnes per KLPD of ethanol generation	0.60 tonnes	0.45 tonnes
Output of CO ₂ in tonnes per KLPD of ethanol generation	0.40 tonnes	0.40 tonnes

The above table shows the input output ratios, based on the usage of maize and rice. Though, TBL is assuming maize as the prime feedstock for preliminary estimation, it may use broken rice or combination of both in future, based on the availability of respective feedstock, market conditions & Government policies at the time of DCCO of the plant.

5.2 EXPECTED OUTPUTS

Based on the appraised design basis, the expected outputs from the proposed project are indicated in the following table:

Item	Years				
Add On Grain Based Ethanol Plant	I	II	II	IV	V
• Installed Capacity, Ethanol (KLPD)	300	300	300	300	300
• Off Season days on grains	150	150	150	150	150
• Annual Installed Capacity, KL	45,000	45,000	45,000	45,000	45,000
Products					
• Ethanol, KL	45,000	45,000	45,000	45,000	45,000
• CO ₂ , Metric tonne	18,000	18,000	18,000	18,000	18,000
• DDGS, Metric tonne	27,000	27,000	27,000	27,000	27,000

5.3 BUILDING & CIVIL CONSTRUCTION DETAILS

The civil work mainly includes the foundations of for all Plant and Machinery required for adding grains as additional feedstock including Grain Silo, Grain Handling & Milling, Liquefaction Section, Fermentation Section (modification), integrated Evaporation, Decantation, DDGS Dryer Section, Utility etc.

5.4 PLANT & MACHINERY DETAILS

The major plant & machineries includes machineries required for adding grains as additional feedstock including Grain Processing including Grain Silo, Grain Handling & Milling, Liquefaction Section, Modifications in Fermentation Section, Integrated Evaporation Section, Decantation, DDGS Dryer Section, Boiler, Utility etc.

5.5 EFFLUENT TREATMENT

The Zero Liquid Discharge (ZLD) system for grain-based distillery effluent handling (DDGS Plant) consists of following main processes.

- Decantation System: To separate the suspended particles and thin liquor
- Evaporation System: To concentrate the thin liquor in vacuum evaporator
- Mixing & Blending System: To mix the Wet cake and the concentrate
- Spin Flash Drying: To dry the mix to get dried powder (DDGS)

The grain stillage from the bottom of analyzer column of grain based distillery is introduced to a continuous decanter centrifuge. Suspended particles are separated as a wet cake from the decanter and thin liquor is further processed to the evaporation section.

The thin liquor from decanter is concentrated in multiple effects falling film vacuum evaporator to get maximum water evaporation per kg steam energy supplied. The total process is under vacuum and the vapours generated in the system are re-used to economize steam consumption. In order to reduce steam consumption in multiple effect evaporation system the thermal vapour recompression system is used. The thermal vapour recompression system use vapours generated in the evaporator and compress it by steam and the compressed vapours are used as heating medium in the evaporator. The concentrate obtained from the evaporator is stored and fed to the mixing section. The wet cake and the concentrate is mixed and blended to for a uniform mix. The so formed mix is

fed to the spin flash dryer to dry the wet mix to get dried powder DDGS. Fraction of DDGS at 10% moisture content is re-circulated through the blending section so to reduce the water evaporation load on spin flash dryer. The DDGS thus obtained is a high protein content product and can be used as cattle feed of good nutritional value.

5.6 RAW MATERIALS

TBL's proposed add on grain based ethanol plant will operate for additional 150 days on procured grains (excluding existing operations of ethanol plant on sugar syrup & molasses).

The total requirement of Maize for the 150 days operation of the proposed ethanol plant at 100% utilization level of operation will be as follows:

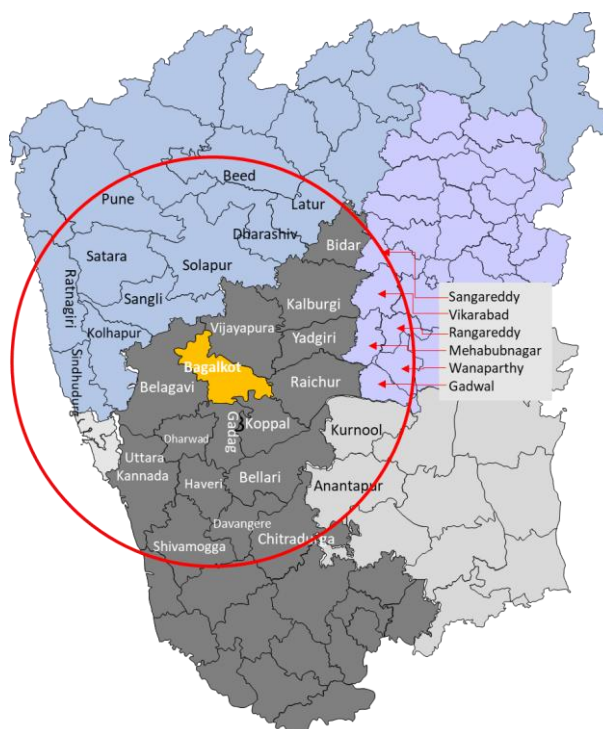
Sr. No.	Unit	Add on Capacity, KLPD	Maize Quantity Requirement (tonnes)	Days of Operation	Source
1	TBL Unit 4	300	1,18,421	150	To be procured from open market

Karnataka is the largest producer of Maize in India. Maize is cultivated in an average area of 17.50 lakh hectare with an average annual production of 56.28 lakh tonnes with an average productivity of 3216 kg/ha. It comes up well under a wide range of soil and climatic conditions. Also, within the Karnataka State the average annual paddy (rice) production is estimated about 67.45 lakh tonnes. This shows sufficient quantity of feedstock is available in the market.

TBL shall deploy dedicated team for procurement of grains from nearby areas. They will be maintaining close liaison and relations with both farmers and merchant suppliers besides making prompt payments.

5.6.1 Raw Material Availability within 250 Km Radius

The command area within 250 Km radius of Bagalkot District of 34 districts from Karnataka, Maharashtra, Telangana & Andhra Pradesh as illustrated below:



Below table shows the paddy & maize production as well as broken rice generation along with marketable maize quantity within these 34 districts

Sr. No	State	District	Paddy Production (Tonnes)	Broken Rice @ 10 % (Tonnes)	Maize Production (Tonnes)	Marketable Maize @95% (Tonnes)
1	Karnataka	Bagalkot	479	48	3,43,188	3,26,029
2		Vijayapura	954	95	2,71,213	2,57,652
3		Bidar	2,732	273	5,335	5,068
4		Kalburgi	60,464	6,046	10,048	9,546
5		Yadgiri	6,44,736	64,474	1,154	1,096
6		Belgavi	2,49,904	24,990	9,84,235	9,35,023
7		Dharwad	24,917	2,492	2,07,815	1,97,424
8		Uttar Kannada	1,51,432	15,143	45,986	43,687
9		Shivamogga	3,67,469	36,747	2,82,935	2,68,788
10		Davangere	6,66,007	66,601	5,25,924	4,99,628
11		Gadag	22,991	2,299	1,98,341	1,88,424
12		Koppal	5,84,750	58,475	2,78,172	2,64,263
13		Chitradurga	6,174	617	4,49,506	4,27,031
14		Haveri	1,49,085	14,909	7,47,164	7,09,806
15		Bellari	10,83,936	1,08,394	7,51,401	7,13,831

Sr. No	State	District	Paddy Production (Tonnes)	Broken Rice @ 10 % (Tonnes)	Maize Production (Tonnes)	Marketable Maize @95% (Tonnes)
16	Maharashtra	Raichur	16,93,289	1,69,329	7,339	6,972
17		Sindhudurg	1,69,859	16,986	1,602	1,522
18		Ratnagiri	2,01,875	20,188	120	114
19		Kolhapur	2,84,691	28,469	10,308	9,793
20		Sangli	31,656	3,166	2,09,252	1,98,789
21		Satara	89,837	8,984	78,825	74,884
22		Pune	1,57,620	15,762	1,69,794	1,61,304
23		Solapur	30	3	2,94,317	2,79,601
24		Latur	21	2	2,823	2,682
25		Beed	50	5	19,764	18,776
26		Dharashiv	135	14	14,424	13,703
27	Telangana	Sangareddy	3,23,645	32,365	8,589	8,160
28		Vikarabad	2,60,864	26,086	35,511	33,735
29		Rangareddy	3,54,210	35,421	43,403	41,233
30		Mehabubnagar	4,77,256	47,726	8,533	8,106
31		Wanaparthi	6,19,192	61,919	12,634	12,002
32		Gadwal	25,461	2,546	16,479	15,655
33	Andhra Pradesh	Kurnool	6,01,000	60,100	2,38,000	2,26,100
34		Anantpur	1,56,000	15,600	1,19,000	1,13,050
	Total		94,62,721	9,46,272	63,93,134	60,73,477

Source: State Agricultural Departments

Based on the table above, it can be seen that the maize & broken rice availability within the command area of 250 Km is about 70.20 lakh tonnes against the requirement of 1.18 lakh tonnes for TBL Unit 4. This shows ample amount of raw material is available for the proposed project.

5.7 MANPOWER, UTILITIES AND CONSUMABLES

- I. Experienced and well qualified manpower is already employed at the existing ethanol projects. Unit 4 has 350 employees.

TBL is in process of deploying the additional manpower required for the add on grain based ethanol project. It is most essential for TBL to define the organization structure for the additional manpower of ethanol plant.

- II. Water, steam and power are the main utilities required for operating the ethanol project.

- III. Power is required during construction and in case of shut down of plant, it will be drawn from the existing boilers.
- IV. The consumables required for operation of ethanol plant include laboratory and ETP chemicals, oils / lubricants and other chemicals for the machinery and processing, etc. The consumables indicated above are available in substantial quantities from nearby towns, and no difficulty is envisaged.

5.8 FUEL, STEAM, POWER & WATER REQUIREMENT:

The steam requirement for add on grain based ethanol project will be fulfilled by existing high pressure boiler, whereas the fuel utilized for the boiler will be bagasse from existing facilities.

Water license for TBL Unit 4 is already applied.

The bagasse, steam, power & water requirement for add on grain projects are estimated as below:

Sr No.	Item	TBL Unit 4
1	Bagasse as fuel Required for producing the required quantity of Steam, TPH	28.41
2	Steam Requirement (through existing boilers) for add on ethanol projects on grain basis, TPH	62.50
3	Power Requirement (through existing TGs) for add on ethanol projects on grain basis, MW	10 to 15
4	Water required for the entire process at 3 Cubic Meters per KL of Ethanol, M ³	1,35,000

5.9 CONVERSION OF MONO FEED TO MULTI FEED OPERATION

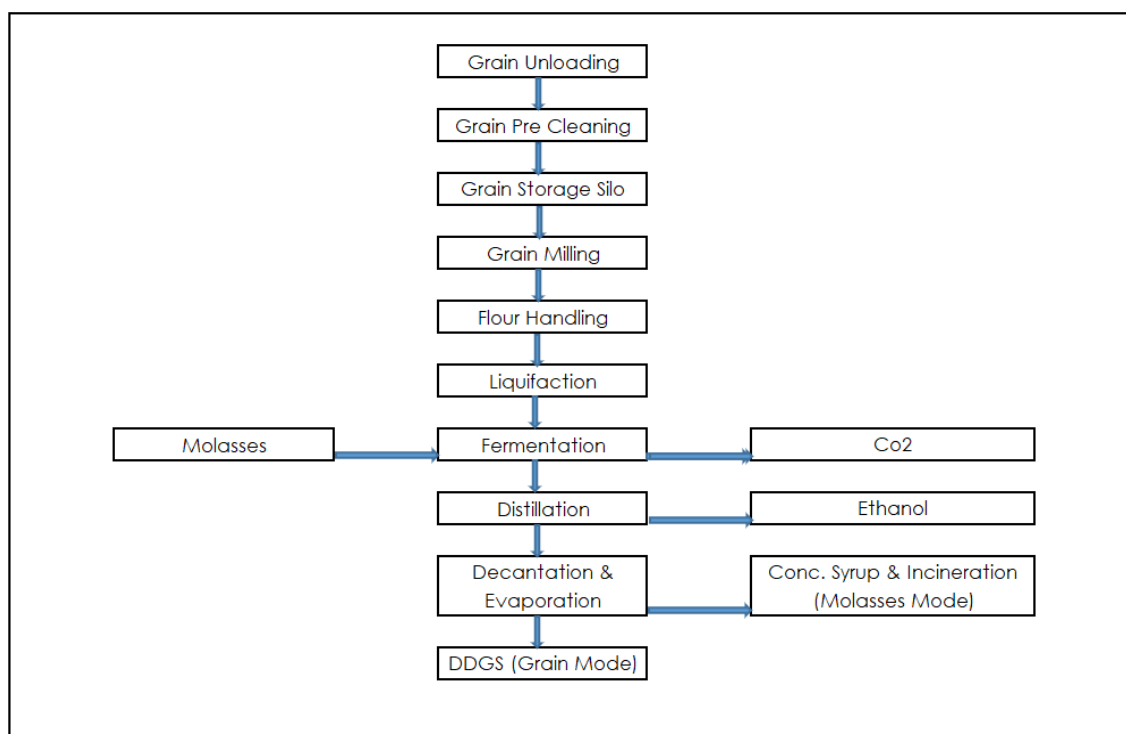
The Unit is already operational since December 2024 and production commenced. Subsequently, after proposed IPO the proceeds shall be used to convert the same unit into “multi feed” operation. To convert the mono feed plant into multi feed, the incremental plant and machineries are required to be installed and the major portion of the plant and machinery are used for both types of operation (mono feed and multi feed).

The Ethanol production process involves three major steps, such as Fermentation, Distillation and Evaporation along with cogeneration and majorly three different types of Plant and machineries are required for each process. However, in the case of mono-feed and multi-feed plants, the plant and machinery used for the distillation and evaporation processes are common. Only separate sets of plant and machinery are required for the fermentation process. Therefore, in this DPR, to convert a mono-feed plant into a multi-feed plant, only the fermentation section and an upgrade to the evaporation section need to be added. Accordingly, only the cost of plant machinery for these sections and other minor costs have been estimated.

In order to effectively increase the number of operating days in a year, TBL has planned to add grains (particularly maize) as an alternative feed-stock. This requires installation of additional plants and machinery and other auxiliaries, exclusively for processing the grains before they are used as feed-stock in the Existing Ethanol Plants, which may also require minor alterations / modifications, etc.

For add on grains operation during off-season, TBL need to add new sections pertaining to grain mode including Grain storage, loading & unloading section, Grain handling, cleaning, Milling and flour handling and flour Weighing System, Slurry handling, Jet cooking, Liquefaction, Pre-Scarification Section, Decantation Section, DDGS Dryer Section etc. While the existing sections like Fermentation, Multi pressure vacuum distillation, Evaporation can be modified to suit the existing season as well as proposed off-season operations. Similarly, WTP, CPU, DCS system, Air Compressors can be utilized from existing facilities based on the requirement. Steam & Power requirement for additional operation can be fulfilled by existing power generation plant.

The typical flow diagram of molasses & grain based ethanol project is given below:



Process Flow Diagram of Molasses & Grain Based Ethanol Project

TBL Unit 4 is for additional capex for conversion of the syrup/molasses based mono feed operation which is already operational since December 2024 (for syrup/ molasses based).

Following table shows the major sections to be installed at add on grain-based projects at TBL Unit 4:

Section	Description
Grain Silo	Grain Silo of 12,500 MT Capacity x 2 Nos. with accessories
Grain Handling & Milling	Grain unloading, Precleaning & Feeding to Silo - 85 TPH Grain Cleaning, Handling & Milling- 35 TPH, Grain Flour Handling system, Silo & Weighing system - 28 TPH
Liquefaction Section	Initial Liquefaction & Final Liquefaction tank with Jet cooker along with Bought out items, Piping & Valves, Electrical & Instrumentation
Fermentation Section:(Modification)	Modification in Existing Fermentation for Grain Suitability with Wide Gap Plate Heat Exchanger (PHE), Top Entry Agitator addition, Piping & Valves, Electrical & Instrumentation.

Section	Description
Structural works	Structure staging and equipment support structure for above process sections with sandblasting and epoxy coating
Integrated Evaporation Section	Falling Film Effect & Force Circulation Effect (4 FF + 1FC) suitable for Grain Evaporation along with VLS, Tanks, Piping & Valves, Electrical & Instrumentation
Decantation	Decanters 4 No. working + 2 No standby with Ribbon mixer, Tanks, Bought out Items, Piping & Valves, Electrical and Instrumentation
DDGS Dryer	Dryer of HTA 1650 m ² x 2 Nos. with Accessories along with Cooling Conveying & Semi-Automatic packaging machine
Utility	Cooling tower for liquefaction and evaporation section with recirculation pump with motor, instrument air, piping and valves, electrical and instrumentation, plant lighting and yard piping
Boiler	Design, engineering, manufacturing supply and conducting performance guarantee test of 55TPH and capacity enhancement of 55 TPH to 65 TPH boiler

Process Description:

The process of converting grains to Alcohol can be divided into following sub sections:

- 1] Milling & Flour Handling
- 2] Liquefaction
- 3] Fermentation
- 4] Distillation
- 5] Molecular Sieve Dehydration Plant (MSDH)
- 6] Decantation
- 7] Evaporation Section
- 8] DDGS Dryer
- 9] Process Condensate Treatment Section

1] Milling & Flour Handling

The incoming grain is first cleaned with the help of de-stoner and magnetic separators to remove stones and other material which may damage the hammers during milling. The grain is fed to hammer mill in controlled manner. In milling grains are crushed to flour of uniform size. Oversized screening rejects are segregated with the help of vibratory screen.

These are taken to coarse bin before sending it to mill again. Intermediate hopper is provided for buffer capacity for flour storage. The flour is transferring to the mixing tank for slurry preparation process.

2] Liquefaction

In liquefaction process, starch is hydrolyzed to dextrin. The Liquefaction is carried out in Liquefaction Tanks. Feedstock Flour is transferred to Pre-masher and mixed with Recycle Streams, thin stillage and liquefying enzyme. Slurry from Pre-masher is taken to Liquefaction tank where temperature is maintained by means of steam. Necessary retention time is maintained in the Liquefaction Tank. Contents in Slurry Tank are kept in suspension by Agitation. The Liquefied Slurry is then cooled in Slurry Cooler (wide Gap PHE) and transferred to Pre-fermentation and Fermentation section.

3] Fermentation

Yeast seed material is prepared in Yeast Activation Vessel (Pre-fermenter) by inoculating sterilized mash with yeast. Optimum temperature is maintained by circulating cooling water. The contents of the Yeast Activation Vessel are then transferred to Fermenter. The purpose of Fermentation is to convert the fermentable substrate into alcohol. To prepare the mash for Fermentation, it is diluted with water. Yeast is added in sufficient quantity to complete Fermentation to produce alcohol.

Significant heat release takes place during Fermentation. This is removed by passing the mash through heat exchangers to maintain an optimum temperature. The recirculating pumps also serve to empty the Fermenters into Beer Well. CO₂ can then be taken to CO₂ vent line where it is vented out. After emptying of Fermenter, it is cleaned with CIP using cleaning nozzles. After CIP, Fermenter is ready for next batch to be filled.

4] Distillation

Pre-heated fermented wash is fed into a series of Distillation Columns to increase the alcohol concentration and remove various impurities.

Following Columns will be under operation for Wash to AA Mode

1. Analyzer Column
2. Degasifying Column
3. Rectifier cum Exhaust Column
4. Alcohol Scrubber

5] Molecular Sieve Dehydration Plant (MSDH)

Rectified Spirit containing at least 95% v/v alcohol is pumped from RS feed tank to dehydration section. Superheated hydrous alcohol vapors are sent to twin Adsorbent Beds. The twin Adsorbent Beds operate in cyclic manner. Twin beds are provided to allow for bed regeneration in continuous operation. While one bed is in dehydration mode, the other is in regeneration mode.

The Adsorbent Bed will absorb moisture present in feed vapors and dehydrated product alcohol vapors are obtained from bottom of the bed.

The Product alcohol vapors are then passed through Product Condenser where product vapors are condensed with the help of cooling water. Condensed product alcohol (@ 99.8 % v/v strength as required for fuel blending) is collected in product receiver. The Product alcohol from Product Receiver is pumped to Product Cooler where it is cooled with the help of cooling water and then sent for anhydrous alcohol storage.

6] Decantation

Decantation section comprises of a Centrifuge Decanter for separation of suspended solids from Spent Wash coming out of Grain Distillation Plant. Wet cake is removed from bottom of Decanter. Thin slops coming out of Decanter are collected in a tank and partly recycled into the process & Evaporation for further concentration.

The concentrated thin slops called as Syrup is mixed with Wet cake and sold in wet form as cattle feed (DWGS). Or as an option, the entire mixture can be dried in a DWGS Dryer and then sold in dry form as Cattle feed (DDGS).

7] Evaporation Section

The suggested treatment scheme is a FOUR EFFECT working on the principle of falling film & Forced Circulation Evaporation for Thin Slop Evaporation Plant.

The following points will elucidate the basic working principle:

1. Shell & Tube type Evaporators working on the principle of Falling film Evaporation has been used.
2. Steam of medium pressure is fed to the first effect.
3. The product at the desired concentration is obtained at the outlet of the finisher.
4. The Pure steam condensate are collected in receiving vessels and can be pumped to desired battery limit
5. The plant is having high level of automation to get consistent output at required concentration.
6. The system operates under vacuum.

8] DDGS Dryer

Wet distiller's grains shall be fed into the dryer housing at controlled rate through a suitable feeding system. The Rotary Tube Bundle is enclosed in an insulated dryer housing and on its outer flights are fixed. Dry, saturated steam is to be supplied to the tube bundle through rotary joint at one end & the condensate is discharged through rotary joint mounted of another end.

The heat transfer is primarily by conduction. The water vapors are exhausted through an Exhaust Blower & passed through a cyclone separator for separating fines.

Dry product partially recycled back to Feed conditioner for feed conditioning through Product Screw & Recycle Conveyor.

9] Process Condensate Treatment Section

The process condensate from the evaporation section is treated in this unit and this treated condensate is then recycled back to process thus reducing the fresh water consumption.

5.10 PHYSICAL PROGRESS AT SITE AS ON 31.08.2025

Overall, 75% of the project progress is complete. The detailed physical progress for add on grain plant at the site, as on 31.08.2025, is as below:

Sr no	Section	Status of Civil Work	Status of Mechanical
"A"	Unloading and Precleaning		
1	Unloading and Precleaning	100 % Completed	100 % Completed
2	Unloading Hopper	100% Completed	100 % Completed
3	1.3 m Unloading Hopper Slab	100 % Completed	100 % Completed
4	1st Bucket Elevator	100 % Completed	85 % Completed
5	Precleaning Foundation and Slab	100 % Completed	80 % Completed
6	2nd Bucket Elevator	100% Completed	85 % Completed
"B"	Silo		
1	Grain Silo Foundation - "A"	100% Completed	100% Erection work completed
2	Grain Silo Foundation - "B"	100% Completed,	100 % Completed
3	Grain Silo Erection Work	100 % Completed	1st Silo 100% completed and 2nd 100 % Completed
"C"	Milling section		
1	Main mill foundation	100% Foundation work completed as per existing 10 MT X 05 Mills design.	65 % Completed
2	Elevator Pit and Slab Details	100% pit work completed, slab Completed,	80 % Completed
3	Inside small foundation	100% completed	90 % Completed
4	Structural column foundation	100% Column Civil foundation Work Completed.	90 % Completed
5	Equipment Erection	Completed	75 % Completed
6	Loading elevator pit	100% work completed	90 % Completed
"D"	Liquefaction section		
1	Slurry tank	100% Completed with Bitumin layer	95% Erection work completed.
2	Liquefaction Tank	100% Completed with Bitumin layer	95 % Completed
3	CIP - Tank	100% Completed with Bitumin layer	95% Erection work completed.
4	Hot Water Tank	100% Completed with Bitumin layer	90% Erection work completed.
5	Retention vessel	100% Completed	95% Erection work completed.
6	Structural column foundation	100% Completed,	95 % Completed
7	PHE foundation – Slurry Cooler 1	100% Completed,	Erection completed 100%
8	PHE foundation – Slurry Cooler 2	100% Completed,	Erection 100%

Sr no	Section	Status of Civil Work	Status of Mechanical
			completed
9	Pump Foundation -	100% Completed,	Erection 90% completed
10	Gutter	60 % Completed	60 % Completed
11	Flooring	80 % Completed	80 % Completed
12	Steam Line	60 % Completed	50 % Completed
13	Water Line	100 % Completed	60 % Completed
14	Cooling Tower Erection	90% completed	60 % Completed
15	Cooling Tower Pumps and Piping Erection	100% completed	75 % Completed
16	Internal SS Pipeline	80 % Completed	75 % Completed
"E"	Dryer section		
1	DDGS Dryer & Decanter section column foundation	70 % Completed	Erection work 65% Completed
2	Main Dryer Foundation A&B	100% work completed,	65% Completed
3	MCC Panel and Decanter Slab	100 % Completed	85% Completed
4	Pump Foundation	100 % Completed	95 % Completed
5	Feed and Thin Slope Tank Foundation	100 % Completed	90 % Completed
6	Steam Line	80 % Completed	60 % Completed
7	DDGS Godown	30% Work in progress	50% Completed
8	Structural column foundation	100% Civil foundation Work Completed.	80% Completed
9	MS Structural Columns sand blasting work	100% Completed	95% Completed
10	Gutter and RCC Flooring	In Progress	In Progress

The detailed physical progress for 55 TPH Traveling Grate Boiler at the site, as on 31.08.2025, is as below:

Sr No	Section	Status of Civil Work	Status of Mechanical
	55 TPH Traveling Grate Boiler		
1	Pressure Parts- One lot Steam drum of fusion welded construction provided with necessary nozzle and with dished ends on both side with manways.	70 % Completed	Erection work 40% Completed
2	Combustor -TG assembly consisting of Grate castings, grate frame & Plenum chamber below the grate with slide gate arrangement at bottom & By pass chute	60% work completed,	50% Completed
3	Fuel Storage & Feeding System-5 Nos.Fuel silo (Bagasse) with 10-12 minutes storage capacity considering 150-200 Kg/m3 density for bagasse & Conveyor elevation to be decided during detail engineering.	80 % Completed	65% Completed
4	Deaerator Cum Storage Tank (Shall be located on Separate steel structure adjacent & connected to boiler main structure)	80 % Completed	60 % Completed

Sr No	Section	Status of Civil Work	Status of Mechanical
5	Feed water tank-One number feed water tank (30 minutes storage) with 2 x 110% feed water transfer pumps with VFD drives including valves and fittings. Deaerator & Feed water tank shall be located on same steel structure	80 % Completed	65 % Completed
6	Feed Water Piping- Makeup water / process condensate piping upto Feed water tank	80 % Completed	60 % Completed
7	Boiler Feed Water Pumps-3 x 60% (2W + 1SB) boiler feed water pumps with ARC	Work in progress	50% Completed
8	Boiler Mountings & Fittings	100% Civil foundation Work Completed.	65% Completed
9	Blow Down System- One No. CBD and One No. IBD tank supplied with necessary nozzles, mountings & fittings.	80% Completed	60% Completed
10	Soot Blowers-4 Nos.long retractable soot blowers & 4 Nos. rotary soot blowers for superheater zone.	80% Completed	60% Completed
11	Draft Equipment-2x60% MCR capacity Secondary Air (SA) fan including base frame, coupling and coupling guard with suction damper, expansion joint.	80% Completed	50% Completed
12	Chemical Dosing System- One set skid mounted low pressure (LP) dosing system comprising of one number mixing cum storage tank with motorized agitator and 2 numbers positive displacement pumps (1W + 1SB).	40% Completed	30% Completed
13	Non Pressure Parts, Boiler Supporting Structures, Platforms, Staircase & Operating Floor, Air Ducting (5MM Thick)	80% Completed	30% Completed
14	Integral Piping- One lot integral piping consists	100% Completed	20% Completed
15	Drain and Vent Piping lot	100% Completed	20% Completed
16	External Steam Piping Lot	100% Completed	30% Completed
17	Chimney- along with platforms and ladders.& Lighting arrestor and aviation lamp	100% Completed	90% Completed
18	SWAS panel includes pH & conductivity transmitters including shell & tube sampling cooling system to sampling the feed water, drum water and superheated steam	80% Completed	60% Completed
19	Electricals- Control Transformer 415/230VAC, LT MCC for boiler & its auxiliaries.	60% Completed	65% Completed
20	Boiler Controls & Instrumentation	100% Completed	30% Completed
21	Complete DCS For Boiler and fuel handling system	100% Completed	30% Completed
22	Complete Electrical and instrumentation required air compressor.	90% Completed	40% Completed
23	Required Air Condition system for DCS Room And Panels	50% Completed	20% Completed
24	Ash Handling System	In Progress	In Progress

5.11 ASSESSMENT OF ENVIRONMENTAL & SOCIO-ECONOMIC BENEFITS

- The proposed projects of TBL will be a landmark in the vicinity. It will become a role model of utilizing the grain in the most efficient manner for eco-friendly products like ethanol. The optimum production of conventional but quality products will cater to value added domestic and international markets.
- The sound techno-economic and commercial viability of this project, coupled with highest efficiency in all aspects of product manufacture, will pave the way for integration of biofuel industry in the country.
- TBL will work with a fundamental principle to localize as much part as possible of the Operation, Procurement and Basic Infrastructure as its future forward approach, it will help develop the local economy and will also provide economically effective solutions to TBL.
- Establishment of the latest and most efficient technologies adopted for the proposed project will help the Indian ethanol industry and equipment manufacturers to grow at the national and the international levels.
- The socio-economic benefits arising out of this project for the local populace will include creation of direct and indirect jobs and consequent rise in the income levels, associated commercial and social infrastructure development, improved quality and better environment and higher returns for the grains.
- At the project and promoter levels, the project offers excellent opportunities for expansion, flexibility of operations depending on the market situation for each product.
- The proposed project has substantial socio-economic and environmental benefits at the local, the State, the Regional and the National levels.

6. STATUTORY APPROVALS & CONSENTS

6.1 STATUS OF STATUTORY APPROVALS

Other than the corporate registrations, TBL Unit 4 has the following licenses and approvals.

All approvals which are fundamental to the operation of TBL Unit 4 and the proposed project have been obtained.

List of Approvals / Permissions required & their status as of September 2025 is indicated in the following table:

Statutory Approval	Competent Authority	Status TBL Unit 4
GST Registration	State Tax Dept	Received in the name of TBL
IEM License for 2000 KLPD	Department for Promotion of Industry and Internal Trade, Ministry of Commerce & Industry, Govt. of India	Received amended IEM on 02.04.2025
Possession & Use of Molasses for Manufacturing Rectified Spirit	Excise Commissioner, Excise Department, Government of India	Received on 09.07.2025
Certificate of Verification for Weights and Measurement	Dept of Legal Metrology, Govt of Karnataka	Storage Tank & Receiver Tank License received on 21.12.2024 Flow Meter and Weigh Bridge currently under construction and hence are being borrowed from Nirani Sugars Limited. Molasses Tank and Hopper Scale License to be applied post construction of Flow Meter and Weigh Bridge
State High Level Clearance Committee (SHLCC) order for 4600 KLPD in the name of TBL	Govt of Karnataka	Applied for Renewal

Interest Subvention Approval for proposed ethanol capacity of 2,800 KLPD in the name of TBL (on overall basis across different units)	Dept of Food & Public Distribution	Received (approval is for 200 KLPD capacity)
Environment Clearance for Grains based operations	Ministry of Environment, Forest and Climate Change	Received
Water Lifting Permission	Irrigation Department, Karnataka	Applied on 17.07.2023
Consent to Establish from Pollution Control Board	Karnataka State Pollution Control Board	Received
Consent to Operate from Pollution Control Board	Karnataka State Pollution Control Board	Received for Syrup on 24.12.2024
Authorization under Hazardous & Other Wastes	Karnataka State Pollution Control Board	Received on 16.01.2025
PESO License	Ministry of Commerce & Industry	Received on 20.01.2025
- Approval of Factory Plan - Factory License - On Site Emergency Plan	Department of Factories, Boilers, Industrial Safety and Health	Received
Certificate for use of Boiler	Department of Factories, Boilers, Industrial Safety and Health	Boiler not yet constructed and installed. License to be applied once construction is completed. Boiler of NSL being used till then which is covered under the MSA.
Fire Fighting Compliance Certificate	Karnataka State Fire & Emergency Services	Received on 04.01.2025
Regular Interconnection Approval	Additional Chief Electrical Inspector	Received

The capacity of unit will not be increased due to the add on investment. Therefore, updated approvals for increased capacity will not be required.

Appendix - I gives the copies of approvals received for proposed project of TBL Unit 4.

7. IMPLEMENTATION SCHEDULE

7.1 PROJECT SCHEDULE

To ensure project completion within the schedule, it is essential to undertake meticulous planning, right from the conceptual stage.

The major activities & estimated target completion date for each component will include following:

Major activities	Target Completion Date TBL Unit 4	Present Status
Estimated date of commencement	March 2025	March 2025
Estimated date of purchase order	May 2025	May 2025 to September 2025
Estimated date of delivery	June 2025	September 2025 to October 2025
Estimated date of installation and erection	September 2025	November 2025
Estimated date of Completion / Trial production	December 2025	December 2025
Estimated date of Final Commercial production	March 2026	January 2026

8. COST OF THE PROJECT

8.1 CAPITAL COSTS

The capital costs for the proposed add on grain based ethanol project, are indicated in the following table:

Rs. Lakh		
Sr. No	Item	TBL UNIT 4 300 KLPD
1.	Civil works	2,200.00
2.	Plant & Machinery	14,313.00
3.	Miscellaneous fixed assets	755.00
	Total	17,268.00

The capital cost has been arrived at based on purchase orders awarded for Civil Works and Plant & machinery to respective competent vendors, as listed below:

SI No.	Vendor / Supplier Name	PO Date	Contract Value with GST, Rs. Lakh	Scope of Work
1	MRN Civiltech Pvt Ltd	03.10.2024	2,200.00	Civil Construction
2	MP Engineering Works	19.10.2024	6,602.00	Supply of Plant & Machinery
3	ESBEE Power Solutions Pvt Ltd	06.05.2025	3,122.00	Supply of Plant & Machinery
4	Raj Process Equipment and Systems Pvt Ltd	07.05.2025	4,589.00	Supply of Plant & Machinery
5	Jiangsu Grand Drying and Concentrating Equipment Co. Ltd	Proforma Invoice dt 28.05.2025	755.00	Supply of Plant & Machinery
	Total		17,268.00	

Out of estimated project cost of Rs. 17,268 lakh the Company has already incurred Rs. 2,017.41 lakh towards civil works (to MRN Civiltech Pvt Ltd) through internal accruals. Further, the remaining amounts of Rs. 182.59 lakh payable towards civil work will also be funded out of the internal accruals of the Company and not from the Offer proceeds.

Remaining amount of Rs. 15,068.00 other than the civil works will be funded by IPO.

The detailed bifurcation of the project cost under various heads are as given below:

8.1.1 BUILDING & CIVIL COST

The main civil works for the add on ethanol plant and their estimated costs are indicated in the following table.

Sr. No	Particulars	Rs. Lakh
		TBL Unit 4 (300 KLPD)
1	Earth work in excavation of foundation trenches or drains, in all sorts of soil (including necessary trimming the sides of trenches, leveling, dressing and ramming the bottom, bailing out water as required complete upto 1.5 meter (4850 Cubic meter x Rs. 162.75)	7.89
2	Earth work in excavation of foundation trenches or drains, in all sorts of soil (including necessary trimming the sides of trenches, leveling, dressing and ramming the bottom, bailing out water as required complete Above 1.5 meter (3637.50 Cubic meter x Rs. 187.16)	6.81
3	Earth work in filling in foundation trenches or plinth with good earth (Murom Filling brought from outside) (5092.50 Cubic meter x Rs. 527)	26.84
4	Transportation of excavated from site to unloading area (8487 Cubic meter x Rs. 220)	18.67
5	Soiling (320 Cubic meter x Rs. 420)	1.34
6	Providing and laying in position plain cement concrete of Mix 1:4:8 with OPC @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0-57cum (890 Cubic meter x Rs. 6185)	55.05
7	Providing and laying in position Reinforced Cement Concrete of Design Mix M20 with OPC @ 330kgs, with 20mm and down size graded granite metal coarse aggregates @0.95cum and fine aggregates @0.65cum	
a	Upto FFL (4348.76 Cubic meter x Rs. 7185)	312.46
b	Above FFL to 4Mtr (3165 Cubic meter x Rs. 7903.5)	250.15
c	4Mts Above (4.00mt to 8.00mt) (1266 Cubic meter x Rs. 8262.75)	104.61
d	VDF Concreting (Only Concrete) (1050 Cubic meter x Rs. 7185)	75.44
8	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for all work for mass concrete	
a	Straight	
i	Upto FFL (4566.20 Cubic meter x Rs. 650)	29.68
ii	Above FFL to 4Mtr (3323.25 Cubic meter x Rs. 722)	23.99
iii	4Mts Above (4.00mt to 8.00mt) (1329.30 Cubic meter x Rs. 830.30)	11.04
b	Circular	
i	Upto FFL (2609.26 Cubic meter x Rs. 780)	20.35
ii	Above FFL to 4Mtr	19.87

Sr. No	Particulars	TBL Unit 4 (300 KLPD)
	(2215.50 Cubic meter x Rs. 897)	
9	Providing T.M.T steel reinforcement for R.C.C work	
a	Over All Qty (658.48 MT x Rs. 96000)	632.14
b	Lead & Lift (131.70 MT x Rs. 1680)	2.21
10	Pockets (890 RMT x Rs. 1080)	9.61
11	Providing and constructing burnt brick masonry (865 Cubic meter x Rs. 5650)	48.87
12	Providing any type thick cement plaster in any coat with cement mortar to brick masonry	
a	Internal (up to FFL) (3760.87 Square meter x Rs. 455)	17.11
b	External (up to FFL) (4150 Square meter x Rs. 552)	22.91
c	Cement Polishing (up to FFL) (1851.4 Square meter x Rs. 652)	12.07
13	Providing & fixing vitrified Tiles of various sizes at flooring & wall	
a	Vitrified Tiles (up to FFL) (456 Square meter x Rs. 1350)	6.16
b	Vitrified Skirting (up to FFL) (228 RMT x Rs. 350)	0.80
14	Granite Work (up to FFL) (189 Square meter x Rs. 4160)	7.86
a	Chamfering (up to FFL) (85 RMT x Rs. 175)	0.15
b	Platform (up to FFL) (31 RMT x Rs. 4150)	1.29
15	Grouting (108 Cubic meter x Rs. 83000)	89.64
16	Painting	
	Internal (up to FFL) (3760.87 Square meter x Rs. 195)	7.33
	External (up to FFL) (4150 Square meter x Rs. 205)	8.51
17	Staging (3980 Cubic meter x Rs. 175)	6.97
18	VDF Finishing (5250 Square meter x Rs. 255.20)	13.40
19	Bitumen Work (785 Square meter x Rs. 1680)	13.19
	Basic Cost	1864.41
	Goods & Services Tax	335.59
	Total	2,200.00

The estimated cost for civil works is based on the purchase order dated 03.10.2024 awarded to MRN Civiltech Pvt Ltd. **Annexure – II** gives the copy of purchase order.

8.1.2 PLANT & MACHINERY COST

The main items of equipment for the add on ethanol plant and their estimated erected costs are given in the following table:

Particulars	Amount in Rs Lakh	Name of the vendor	Date of the purchase order	Estimated date of delivery/ installation
GRAIN SILOS Grain Silo of 12,500 MT Capacity x 2 Nos. with accessories GRAIN HANDLING & MILLING - Grain unloading, Precleaning and Feeding to Silo -85 TPH - Grain cleaning, handling & milling 35 TPH - Grain flour handling system, silo and weighing system- 28 TPH LIQUEFACTION Initial liquefaction and final liquefaction tank with Jet cooker along with bought out items, piping and valves, electrical and instrumentation FERMENTATION SECTION (MODIFICATION) Modification in existing fermentation for grain suitability with wide gap Plate Heat Exchanger (PHE), top entry agitator addition, piping and valves, electrical and instrumentation STRUCTURAL WORKS Structure staging and equipment support structure for above process sections with sandblasting and epoxy coating	6,602.00	MP Engineering Works	19.10.2024	01.10. 2025
INTEGRATED EVAPORATION Falling film effect and force circulation effect (4 Falling Film + 1FC) suitable for grain evaporation along with Vapor Liquid Solid, tanks, piping and valves, electrical and instrumentation DECANTATION Decanters (Quantity 4) working + 2 Nos standby with ribbon mixer, tanks, bought out	4,589.00	Raj Process Equipment and Systems Private Limited	07.05.2025	01.10. 2025

Particulars	Amount in Rs Lakh	Name of the vendor	Date of the purchase order	Estimated date of delivery/ installation
items, piping and valves, electrical and instrumentation				
DDGS Dryer Dryer of Heat Transfer Area 1650 m2 x 2 Nos., with accessories along with cooling, conveying and semi-automatic packaging machine Utility Cooling tower for liquefaction and evaporation section with recirculation pump with motor, instrument air, piping and valves, electrical and instrumentation, plant lighting and yard piping				
BOILER Design, engineering, manufacturing supply and conducting performance guarantee test of 55TPH and capacity enhancement of 55 TPH to 65 TPH boiler	3,122.00	ESBEE Power Solutions Private Limited	06.05.2025	15.01.2026
Packing, forwarding, installation, training and supervision of commissioning	Included Above			
Erection / Installation and supervision of construction	Included Above			
Goods & Services Tax	Included Above			
Total	14,313.00			

The above costs are based on the purchase orders awarded to MP Engineering Works dated 19.10.2024, Raj Process Equipments and Systems Pvt Ltd dated 07.05.2025 and ESBEE Power Solutions Pvt Ltd dated 05.09.2025. **Annexure – III** gives the copies of purchase orders.

8.1.3 MISCELLANEOUS FIXED ASSETS

The major miscellaneous fixed assets for the add on ethanol plant and their estimated erected costs are given in the following table:

Rs. Lakh		
Particulars	TBL Unit 4 (300 KLPD)	Estimated date of delivery/ installation
GZG 1650 m2 dryer	510.40	15.10.2025
GH760 high speed mixer	13.20	15.10.2025
Subtotal	523.60	
Add: CFS, transportation & miscellaneous charges*	231.40	
Grand Total	755.00	

Conversion rate assumed at Rs. 88/USD, date 03.09.2025

Source <https://www.exchangerates.org.uk/>

*We confirm that these charges are as per market rates and is payable to outside vendors not related to Company, its promoters, promoter group, Directors, KMPs and SMPs.

The machineries are yet to be supplied by Jiangsu Grand Drying and Concentrating Equipment Co. Ltd. Proforma Invoice enclosed in **Annexure III**.

9. SWOT ANALYSIS

STRENGTHS	WEAKNESSES
▪ Demand & Supply Gap of Ethanol ▪ Promoters Qualification, Experience & Background ▪ Adequate grain availability in the area of operation ▪ Existing Infrastructure available & Required land is in TBL's possession ▪ Skilled and experienced Promoters and management team, with committed employee base	▪ During a failed monsoon, there will be decreased grain availability
OPPORTUNITIES	THREATS
▪ Opportunity for expansion ▪ National Policy on Biofuels has laid out indicative targets of achieving 20% blending of ethanol in petrol in the whole country by 2025. ▪ Benefit from Interest Subvention Scheme ▪ Socio- economic & environmental value to the local population	▪ Changes in Government policies at Centre & State ▪ Delay in implementation (tight monitoring on all project activities will be essential)

10. RISK MITIGATION

The major four risk factors involved in this project and the mitigations to be followed are described below:

Risk Mitigation

Risk factor	Mitigation
Availability of grains	TBL shall deploy dedicated team for procurement of grains. They will be maintaining close liaison and relations with both farmers and merchant suppliers besides making prompt payments. The average area under maize cultivation is recorded as approximately 17.50 lakh hectare (ha) with average annual production of approximately 56.28 lakh tonnes in Karnataka. The average annual paddy (rice) production is estimated about 67.45 lakh tonnes within the State. This shows sufficient quantity is available for TBL.
Availability of land and water	The required land is already in available & in possession of the Company. The same will be sufficient to cater the requirements for add on investments. Water license for TBL Unit 4 is already applied.
Delay in obtaining the necessary clearances	For TBL Unit 4, as the plant is under construction stage, the following licenses are required to be obtained. 1. Environmental Clearance – Obtained. EC Identification No. EC24A2504KA5644002N dated 1st August 2024 2. Consents to Establish from KSPCB is received. License No. CTE-343294 dated 13th May 2024. Other relevant licenses shall be applied at the appropriate stages, which are required once the plant shall be operational.

Project cost overrun	The Performance Guarantees and Liquidated damages clauses from the EPC contract will take care of the Cost & Time overrun of the Project.
Natural Calamities	Complete plant needs to be insured and also care has been considered while designing and construction of the plant to minimize the impact

11. ABOUT ITCOT

ITCOT LIMITED

ITCOT Limited, (formerly ITCOT Consultancy and Services Limited), popularly known as ITCOT, is the state consultancy organization for Tamil Nadu. ITCOT is registered under Companies Act, 1956. The Registered Office of the company is located at 50-A, Greams Road, Chennai, 600 006, Tamil Nadu.

PROMOTERS OF ITCOT

All India Financial Institutions

- IFCI Ltd

State Development Institutions

- State Industries Promotion Corporation of Tamilnadu Limited (SIPCOT)
- Tamilnadu Industrial Investment Corporation Ltd. (TIIC)
- Tamilnadu Small Industries Development Corporation Limited (TANSIDCO)

Commercial Banks

- State Bank of India
- Indian Bank
- Indian Overseas Bank
- Canara Bank
- Central Bank of India
- Bank of Baroda
- Union Bank of India
- The Laxmi Vilas Bank Ltd
- The Karur Vysya Bank Ltd

BOUQUET OF SERVICES

ITCOT has over 45 years of track record in providing various consultancy services such as preparation of Techno-Economic Feasibility Report, Techno-Economic Appraisal Report, Detailed Project Report, Project Appraisals, Project Management Consultancy (PMC), Lender's Engineers, Owner's Engineer, Environment Impact Assessment, etc., for Government Departments, Financial Institutions, Banks, Industrial Development agencies etc. ITCOT is known for impartial and client neutral approach.

The Company has a team of competent professionals from various disciplines with experience in a wide range of functional areas and industries. ITCOT maintains a panel of experts in specific fields of activity whose services are sought as and when required. With an in-house team of more than 70 consultants, we have the expertise to handle all major sectors Viz. Aviation, Agro, Manufacturing, Infrastructure, Services, Education, Healthcare, Hospitality, Power and Renewable Energy etc. With offices at Chennai, Erode, Mumbai, New Delhi, Hyderabad & Kolkata and with highly committed team of consultants, we will provide competent and timely service.

EMPANELMENT / ACCREDIATIONS OF ITCOT

1. Empanelled by Nationalized Banks and Government Agencies for Project Feasibility / Appraisal / DPR / TEV studies.
2. Empanelled as Lender's Independent Engineer (LIE) for Banks and Financial Institutions.
3. Empanelled as Agency for Specialized Monitoring (ASM) for large credit exposures by Indian Banks' Association.
4. Empanelled as Lender's Independent Engineer (LIE) for monitoring of IREDA funded Projects.
5. Empanelled as Technical Agency for the SFURTI Clusters by Khadi and Village Industries Commission (KVIC) and Coir Board, Ministry of MSME-Gol.
6. Empanelled by Tamil Nadu Infrastructure Development Board (TNIDB) for Technical Engineering, Feasibility Studies and Transaction Advisors for various services.
7. Empanelled by Tamil Nadu Urban Infrastructure Financial Services Limited (TNUIFSL) for Tamil Nadu Sustainable Urban Development Project (TNSUDP).

8. Empanelled by Tamilnadu Energy Development Agency (TEDA) as a System Integrator for Supply, Installation & Commissioning of Solar Photovoltaic Systems.
9. Empanelled by PFC Consulting Ltd for providing a wide range of consultancy services to the power sector including Renewable Energy.
10. Empanelled by BPCL for providing PMC services for Solar PV Plants.
11. Empanelled by Technology Development Board for various activities related to Asset Management.
12. Empanelled by Textiles Committee as Third party Assessment Agency to conduct assessments under the "Samarth" Scheme.

APPENDICES

Appendix - I

Copies of Approvals

1. *Environmental Clearance*



File No: IA-J-11011/304/2023-IA-II(I)
Government of India
Ministry of Environment, Forest and Climate Change
IA Division



Date **01/08/2024**



To,

Shri. Ramesh Bhimgond Biradar,
M/s. TRUALT BIOENERGY LIMITED,
Survey No. 166, Kulali Cross, Jamkhandi- Mudhol Road, Bagalkot District , BAGALKOTE,
KARNATAKA, , 587313
trualt.accounts@niranigroups.com

Subject: Proposed 500 KLPD Multi-feed (B-Heavy Molasses/C-Heavy Molasses/ Cane Syrup/Grain) based Distillery along with 10 MW Co-generation Power Plant located at Village Jalageri, Tehsil Badami, District Bagalkot, Karnataka by M/s. TruAlt Bioenergy Ltd. Unit-IV - Consideration of Environmental Clearance under the provision of the EIA Notification 2006 -regarding.

Sir/Madam,

This is in reference to your application submitted to MoEF&CC vide proposal number IA/KA/IND2/468210/2024 dated 03/04/2024 for grant of prior Environmental Clearance (EC) to the proposed project under the provision of the EIA Notification 2006 and as amended thereof.

2. The particulars of the proposal are as below :

(i) EC Identification No.	EC24A2504KA5644002N
(ii) File No.	IA-J-11011/304/2023-IA-II(I)
(iii) Clearance Type	Fresh EC
(iv) Category	A
(v) Project/Activity Included Schedule No.	5(g) Distilleries
(vi) Sector	Industrial Projects - 2
(vii) Name of Project	Proposed 500 KLPD Multi-feed (B-Heavy Molasses/C-Heavy Molasses/Cane Syrup/Grain) based Distillery along with 10 MW Co-generation Power Plant at Village Jalageri, Tehsil Badami, District Bagalkot, Karnataka by M/s. TruAlt Bioenergy Ltd. Unit-IV
(viii) Name of Company/Organization	TRUALT BIOENERGY LIMITED
(ix) Location of Project (District, State)	BAGALKOTE, KARNATAKA
(x) Issuing Authority	MoEF&CC

**(xi) Applicability of General Conditions as per
EIA Notification, 2006** No

3. The Ministry of Environment, Forest and Climate Change has examined the proposal for proposed establishment of 500 KLPD Multi-feed (B-Heavy Molasses/C-Heavy Molasses/ Cane Syrup/Grain) based Distillery along with 10 MW Co-generation Power Plant located at Village Jalageri, Tehsil Badami, District Bagalkot, Karnataka by M/s. TruAlt Bioenergy Ltd. Unit-IV.

4. The proposal was considered in EAC (Ind-2) meetings held on 3rd May, 2024 and 13th -14th June, 2024 wherein the project proponent and their accredited Consultant M/s. J.M. EnviroNetPvt. Ltd. (NABET certificate no. NABET/EIA/2326/RA 0308 and validity till 07th August, 2026) made a detailed presentation on the salient features of the project. The minutes of the meeting and all the Application and documents submitted [(viz. Form-1 Part A, Part B, Part C EIA, EMP)] are available on PARIVESH portal which can be accessed by scanning the QR Code available above or through the following web link click here.

5. As per EIA Notification dated 14th Sep, 2006 and as amended on 13th June, 2019, the project falls under Category "A", Project or Activity '5(g)' Distilleries [Non-Molasses based distilleries>200 KLD or Molasses based Distilleries >100 KLD] and are appraised at Central level.

6. The details of products and capacity are enclosed at Annexure-2.

7. Standard Terms of Reference has been issued by Ministry vide letter no. IA-J-11011/304/2023-IA-II(I) dated 31st July, 2023. It was informed that there is no litigation pending against the project.

Public Hearing for the proposed project was conducted by the Karnataka State Pollution Control Board on 10th January, 2024 at project premises chaired by Smt. Janaki K.M, I.A.S., Deputy Commissioner and Chairman, Bagalkot. The main issues raised during the public hearing and their action plan is enclosed at Annexure-5.

8. Total land area required is 11.47 hectares. Greenbelt will be developed in total area of 3.8 hectare i.e., 33% of total project area. The estimated project cost is Rs. 650 Crores. Capital cost of EMP would be Rs 65 Crores and recurring cost for EMP would be Rs. 6.5 Crores per annum. Industry proposes to allocate Rs. 10.00 Crores towards Extended EMP (Corporate Environment Responsibility). Total Employment will be 150 persons as direct & indirect.

9. There are no National Parks, Wildlife Sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors, Protected forests etc. within 10 km distance. Only some patches of unnamed RF are present within 10 km radius. Water bodies: Gondi Mada Halla is at a distance of 3.0 km in West direction, Kalaskoppa Kere is at a distance of 4.0 km in WNW direction, Bhavi Halla is at a distance of 4.0 km in SW direction, Hire Halla is at a distance of 5.5 km in WNW direction, Vadakina Halla is at a distance of 5.5 km in SSW direction & Chiral Halla is at a distance of 6.0 km in West direction.

10. Ambient air quality monitoring was carried out at 8 locations during summer season March to May, 2023 and the baseline data indicates the ranges of concentrations as: PM10 (41.8 to 79.6 $\mu\text{g}/\text{m}^3$), PM2.5 (22.3 to 45.1 $\mu\text{g}/\text{m}^3$), SO2 (5.3 to 10.4 $\mu\text{g}/\text{m}^3$), NO2 (10 to 24.3 $\mu\text{g}/\text{m}^3$). AAQ modeling study for point source emissions indicates that the maximum incremental GLCs after the proposed project would be 0.22 $\mu\text{g}/\text{m}^3$, 0.56 $\mu\text{g}/\text{m}^3$, 0.66 $\mu\text{g}/\text{m}^3$ and 0.74 $\mu\text{g}/\text{m}^3$ with respect to PM2.5, PM10, SO2 and NOX. The resultant concentrations are within the National Ambient Air Quality Standards (NAAQS).

11. Maximum total fresh water requirement will be 1995 CMD which will be met from surface water of Ghataprabha River. Application has been submitted to Executive Engineer, Karnataka Niravari Nigam Limited, MBC Division 01, Bagalkot vide Application No. TruAlt/ADM/WRD/GLBC/2023-24 dated 17-07-2023 for grant of authorization for abstraction of 2500 KLPD. Proposed maximum effluent generation will be 4581 CMD which will be treated through proposed Condensate Polishing Unit of capacity 5500 CMD. Domestic waste water will be treated in proposed STP of 25 KLD. The plant will be based on Zero Effluent discharge system and no effluent/treated water will be discharged outside factory premises.

12. Power requirement will be 9.0 MW which will be met from proposed 10 MW Co- Generation Power Plant. 125 TPH multi-fuel (Bagasse/Conc. Spent wash + bagasse) fired boiler will be installed. APCE ESP with a stack of height of 75 m will be installed for controlling the particulate matter emissions within the statutory limit of 50 mg/Nm³ for the proposed boiler. 2 x 1500 KVA D.G. set will be used as standby during power failure and stack height 8 m will be provided as per CPCB norms to the proposed DG sets.

13. Details of Process emissions generation and its management:

- Electro-Static Precipitator (ESP) with stack of height (75 m) will be installed with proposed 125 TPH Boiler to control the suspended particulate matter emissions due to combustion of fuel within statutory limit of 50 mg/Nm³.
- CO₂ generated (max. 384 TPD) during fermentation process will be collected and sold to vendors as per local demand.
- Online Continuous Emission Monitoring System will be installed with the stack and data will be transmitted to CPCB/SPCB servers.

14. Details of solid waste/Hazardous waste generation and its management:

- Concentrated spent wash (max.1251 TPD) from molasses/cane syrup-based distillery operations will be burnt in proposed 125 TPH boiler.
- Solid waste from the Grain based operations generally comprises of fibres and proteins in the form of DDGS (220 TPD) which will be ideally used as Cattle, poultry & fish feed ingredients.
- Ash (158 TPD) generated during molasses/cane syrup-based distillery operation will be given to nearby farmers due to rich potash content & Ash (12 TPD) generated during grain based distillery operation will be given to nearby brick manufacturers in covered vehicles only.
- CPU sludge & STP sludge will be dewatered in Filter press and will be used as manure.
- Used oil & grease (1.0 KL/annum) generated from plant machinery/gear boxes as hazardous waste will be sold out to the CPCB authorized recyclers.

Total land of 11.47 hectares is completely under the possession of the company and already converted in to industrial use by the orders of Bagalkot District, Collector Office. EAC found the information satisfactory.

15. During deliberations, EAC discussed following issues:

- EAC has observed that the proposed project site is situated in close proximity to integrated sugar industry and distillery. In light of this, the EAC sought clarification from the Project Proponent (PP) regarding whether any land from the aforementioned sugar industry or distillery has been utilized for the proposed project. PP has informed that adjacent land belongs to M/s Shree Kedarnath Sugar & Agro Products Limited, which has received Environmental Clearances (ECs) on March 20, 2008, and November 5, 2008, respectively. Further, PP has clarified that the proposed area of 11.47 hectares for the instant proposal does not overlap with the land covered under the aforementioned ECs.
- As suggested by EAC, PP has increased the CER budget from Rs. 6.5 Crores to Rs. 10.0 Crores for CER activities in nearby areas. As suggested by EAC, PP has committed that budget allocated for OHS shall be increased from Rs. 0.80 Crore to Rs. 1.00 Crore.
- As suggested by EAC, PP committed that the production capacity of distillery shall not exceed 500 KLPD in any mode or combination of feed stock of operation.
- PP has committed that the Industry will conduct quarterly ambient air quality monitoring in nearby villages around the plant through NABL approved laboratory as part of post project monitoring plan & results will be regularly submitted with the half yearly compliance report.
- PP has informed that the land approach road linking the adjacent district road to the project site will be upgraded to a metalled road and maintenance of this road shall be the borne by the Industry.
- PP has informed that fuel for the proposed 125 TPH multi-fuel boiler will be concentrated spent wash along with bagasse during molasses/syrup based operations & bagasse during grain based operations. Coal will not be used for the proposed boiler.
- Industry shall not cut any of the existing trees in the site and also ensure conservation of the same.

16. The committee was satisfied with the response provided by PP on above information. Further, Committee desired to

submit the above information in writing. Accordingly, PP has submitted the desired information and EAC found the information/commitments satisfactory.

17. The EAC, constituted under the provision of the EIA Notification, 2006 and comprising of Experts Members/domain experts in various fields, have examined the proposal submitted by the Project Proponent in desired form along with the EMP report prepared and submitted by the Consultant accredited by the QCI/ NABET on behalf of the Project Proponent. The EAC noted that the Project Proponent has given undertaking that the data and information given in the application and enclosures are true to the best of his knowledge and belief and no information has been suppressed in the report. If any part of data/information submitted is found to be false/ misleading at any stage, the project will be rejected and Environmental Clearance given, if any, will be revoked at the risk and cost of the project proponent.

18. The Committee noted that the EIA/EMP report is in compliance of the ToR issued for the project, reflecting the present environmental concerns and the projected scenario for all the environmental components. The Committee has found the baseline data is within NAAQ standards. The Committee has deliberated the action plan proposed by the project proponent to arrest the incremental GLC due to the project. The Committee has also deliberated on the CER plan and found to be addressing the issues in the study area. The EAC has deliberated the proposal and has made due diligence in the process as notified under the provisions of the EIA Notification, 2006, as amended from time to time and accordingly made the recommendations to the proposal. The Experts Members of the EAC have found the proposal in order and have recommended for grant of environmental clearance.

19. The environmental clearance granted to the project/activity is strictly under the provisions of the EIA Notification 2006 and its amendments. It does not tantamount/construe to approvals/consent/ permissions etc. required to be obtained or standards/conditions to be followed under any other Acts/ Rules/ Subordinate legislations, etc., as may be applicable to the project. The project proponent shall obtain necessary permission as mandated under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981, as applicable from time to time, from the State Pollution Control Board, prior to construction & operation of the project.

20. Based on the proposal submitted by the project proponent and recommendations of the EAC (Industry-2), Ministry of Environment, Forest and Climate Change hereby accords environmental clearance to the project proposed establishment of 500 KLPD Multi-feed (B-Heavy Molasses/C-Heavy Molasses/ Cane Syrup/Grain) based Distillery along with 10 MW Co-generation Power Plant located at Village Jalageri, Tehsil Badami, District Bagalkot, Karnataka by M/s. TruAlt Bioenergy Ltd. Unit-IV, under the provisions of the EIA Notification, 2006, and the amendments therein, subject to compliance of the terms and conditions enclosed at Annexure-1.

21. The Ministry reserves the right to stipulate additional conditions, if found necessary at subsequent stages and the project proponent shall implement all the said conditions in a time bound manner. The Ministry may revoke or suspend the environmental clearance, if implementation of any of the above conditions is not found satisfactory.

22. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.

23. Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

24. The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 read with subsequent amendments therein.

25. This issues with the approval of the competent authority.

Copy To

1. The Secretary, Department of Forest, Environment & Ecology, Government of Karnataka, Room No. 708, Gate 2, Multi

Storey Building, Dr. Ambedkar Veedhi, Bangalore - 1.

2. The Regional Officer, Ministry of Env., Forest and Climate Change, Integrated Regional Office, Kendriya Sadan, 4th Floor, E&F Wings, 17th Main Road, Koramangala II Block, Bangalore - 34.

3. The Member Secretary, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex East Arjun Nagar, Delhi - 32.

4. The Member Secretary, Karnataka State Pollution Control Board, Parisara Bhavan, #49, 4th& 5th Floor, Church Street, Bangalore -1.

5. Monitoring Cell, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi.

6. The District Collector, Bagalkot District, Karnataka.

7. Guard File/Monitoring File/Parivesh portal/Record File.

Annexure 1

Specific EC Conditions for (Distilleries)

1. Distilleries

S. No	EC Conditions
1.1	The company shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented (Annexure – 3). The production capacity of the proposed distillery shall not exceed 500 KLD in any mode or combination of feedstock of operation.
1.2	EC granted for a project on the basis of the submitted documents shall become invalid in case the actual land for the project site turns out to be different from the land considered at the time of appraisal of project. Conversion of land use (CLU) certificate shall be obtained before start of construction activities.
1.3	NOC from the Concerned Local authority shall be obtained before start of the construction of plant and abstraction of surface water. State Pollution Control Board shall not issue Consent to Operate (CTO) under The Air (Prevention and Control of Pollution) Act, 1981 and The Water (Prevention and Control of Pollution) Act, 1974 till the project proponent obtains such permission. Ground water shall not be used for Industrial operations.
1.4	Total Fresh water requirement shall not exceed 1995 CMD which will be met from Ghataprabha River. No ground water recharge shall be permitted within the premises. Industry shall construct a rain water storage pond and the accumulated water to be used as fresh water thereby reducing fresh water consumption.
1.5	Spent Wash/stillage shall be sent to the decanter followed by the Multiple Effect Evaporator and dryer to form DDGS. DDGS to be used as cattle feed. The MEE & Drier condensate, spent lees, WTP Rejects, Boiler & Cooling tower blowdowns, washings etc. shall be treated in the 'Condensate Polishing Unit' (CPU). STP shall be installed to treat domestic wastewater. The plant will be based on 'Zero Liquid Discharge' system and no effluent/treated water will be discharged outside factory premises.
1.6	The spent wash from the molasses-based distillery shall be concentrated in MEE and concentrated spent wash shall be incinerated in the incineration boiler. Other lean effluents Spent lees, MEE Condensates and utility effluents shall be treated in the condensate polishing unit (CPU) comprising

S. No	EC Conditions
	of three stage RO. No wastewater or treated water from integrated unit of sugar mill and distillery shall be discharged outside the premises and Zero Liquid Discharge shall be maintained for all the units namely sugar, Distillery and Cogen Power Plant. STP shall be installed to treat sewage generated from factory premises.
1.7	Adequate numbers of groundwater quality monitoring stations by providing piezometers around the project area shall be set up. Sampling and trend analysis monitoring must be conducted on monthly basis and report submitted to SPCB and RO, MOEFCC. The ground water quality monitoring for pH, BOD, COD, Chloride, Sulphate and Total dissolved solids shall be monitored and report submitted to the Ministry's Regional Office.
1.8	Five field APCE Electrostatic Precipitators with 75 m high stack shall be installed for controlling the particulate matter emissions within the statutory limit of 30 mg/Nm ³ for the proposed 125 TPH multi-fuel (Bagasse/Conc. Spent wash + bagasse) fired boiler. Coal shall not be used for the proposed boiler. At no time, the emission levels shall exceed the prescribed standards. In the event of failure of any pollution control system adopted by the unit, the respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency. Performance assessment of pollution control devices/ systems will be conducted annually.
1.9	Boiler ash (158 TPD) generated during molasses/cane syrup-based distillery operation will be given to nearby farmers due to rich potash content & Ash (12 TPD) generated during grain-based distillery operation will be given to nearby brick manufacturers in covered vehicles only. PP shall install 10% of the total power requirement in the form of solar power inside plant premises/adjacent/nearby areas. The approach road linking the adjacent district road to the project site will be upgraded to a metalled road and maintenance of this road shall be the borne by the industry.
1.10	PP shall initiate study to assess the status of health of villagers, ground water, crop yield and soil conditions and submit the report to MoEFCC within 06 months. The study shall be repeated after 03 years to assess the impact of the plant operation.
1.11	CO ₂ generated (max. 384 TPD) during the fermentation process will be collected and sold to vendors as per local demand.
1.12	PP shall allocate at least Rs. 1.00 Crore as capital cost for Occupational Health Safety. Occupational Health Centre for surveillance of the worker's health shall be set up. The health data shall be used in deploying the duties of the workers. All workers & employees shall be provided with required safety kits/mask for personal protection.
1.13	Training shall be imparted to all employees on the safety and health aspects of chemical handling. Safety and visual reality training shall be provided to employees.
1.14	The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire fighting system shall be as per the norms. PESO certificate shall be obtained. Location of ethanol storage tanks shall be placed in such a way that in the event of any fire, accident, explosion or any unforeseen conditions the impact of such event should not go beyond the boundary of the plant i.e. the risk should be tolerable (acceptable) at the boundary.
1.15	Company shall maintain an Emergency Response Decision support system in such a way so that identification of the detector's network for the location of the leak source and the probable leaked

S. No	EC Conditions
	quantity in real-time, followed by modelling of the dispersion of the plume and consequences as forecast is done in advance and thus, no leak accident may go unattended. Accordingly, Risk Mitigation plan shall be in place.
1.16	Company shall determine the distance of fire hydrant while finalizing its location from ethanol storage tanks or any other hazardous storage substance shall be based on dispersion of Thermal Radiation so that during any unforeseen situation fire hydrant is always available to operate manually.
1.17	Process organic residue and spent carbon, if any, shall be sent to Cement and other suitable industries for its incinerations. ETP sludge, process inorganic & evaporation salt shall be disposed of to the TSDF.
1.18	The company shall undertake waste minimization measures as below (a) Metering and control of quantities of active ingredients to minimize waste; (b) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes. (c) Use of automated filling to minimize spillage. (d) Use of Close Feed system into batch reactors. (e) Venting equipment through vapour recovery system. (f) Use of high-pressure hoses for equipment clearing to reduce wastewater generation.
1.19	The green belt of at least 5-10 m width shall be developed in nearly 3.8 hectares i.e., 33 % of the total project area with tree density @ 2500 trees per hectare, mainly along the plant periphery. Indigenous species shall only be developed as part of greenbelt and non-indigenous / alien species shall be replaced with native species. No invasive or alien or non-native tree species shall be selected for plantation. PP shall develop at least 20 varieties of species as a part of the greenbelt. Saplings 4-6 feet high shall be planted. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department and native species shall be developed. Records of tree canopy shall be monitored through remote sensing map. Greenbelt development shall be completed before the commissioning of the plant. Industry shall not cut any of the existing trees in the site and also ensure the conservation of the same. Trees shall be planted in the Green Belt under the campaign #Plant4Mother #एक पेड़ माँ के नाम and uploaded on the MeriLiFE portal (https://merilife.nic.in/).
1.20	PP proposed to allocate Rs. 10.00 Crores towards extended EMP (CER) Annexure – (4 & 5) which shall be spent as submitted in CER plan. Further, all the proposed activities under CER shall be completed within in consultation with District Administration.
1.21	There shall be adequate space inside the plant premises earmarked for parking of vehicles for raw materials and finished products and no parking to be allowed outside on public places. At least 15% of total project area shall be allotted solely for parking purposes with facilities like rest rooms etc. The parking area will be relocated in South of the drain as per the revised layout plan submitted by the PP. The network of village roads in the plant vicinity shall be maintained by the unit.
1.22	Storage of raw materials shall be either in silos or in covered areas to prevent dust pollution and other fugitive emissions. All stockpiles should be constructed over impervious soil and garland drains with catch pits to trap runoff material shall be provided. Biomass shall be stored in covered sheds and wind breaking walls/curtains shall be provided around biomass storage area to prevent its suspension during high wind speed. All Internal roads shall be paved. Industrial vacuum cleaner shall be provided to sweep the internal roads. The Air Pollution Control System shall be interlocked with process plant/machinery for shutdown in case of operational failure of Air Pollution Control

S. No	EC Conditions
	Equipment.
1.23	Continuous online (24x7) monitoring system for stack emissions/effluent shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCB server. For online continuous monitoring of effluent, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises. Industry shall conduct ambient air quality monitoring atleast at 03 sites in nearby villages around the plant as per CPCB's siting criteria guidelines and ensure their operation as per NAAQS 2009 through NABL approved laboratory as part of post project monitoring plan & results shall be regularly submitted with the half yearly compliance report.
1.24	A separate Environmental Management Cell (having qualified person with Environmental Science/Environmental Engineering/specialization in the project area) equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions. EMC head shall report directly to the Head of Organization/ Director/CEO as per company hierarchy.
1.25	PP shall sensitize and create awareness among the people working within the project area as well as its surrounding area on the ban of Single Use Plastic in order to ensure the compliance of Notification published by MOEFCC on 12th August, 2021. A report along with photographs on the measures taken shall also be included in the six-monthly compliance report being submitted to concerned authority.

Standard EC Conditions for (Distilleries)

1. General Conditions

S. No	EC Conditions
1.1	No further expansion or modifications in the plant, other than mentioned in the EIA Notification, 2006 and its amendments, shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change/SEIAA, as applicable. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry/SEIAA, as applicable, to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.
1.2	The energy source for lighting purpose shall be preferably LED based, or advanced having preference in energy conservation and environment betterment.
1.3	The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under the Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).
1.4	The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. CER activities shall be undertaken by involving local villages and administration and shall be implemented. The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.

S. No	EC Conditions
1.5	The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/ pollution control measures shall not be diverted for any other purpose.
1.6	A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zilla Parishad/Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal.
1.7	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF&CC, the respective Zonal Office of CPCB and SPCB. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company.
1.8	The environmental statement for each financial year ending 31st March in Form-V as is mandated shall be submitted to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional Offices of MoEF&CC by e-mail.
1.9	The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.
1.10	This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.
1.11	The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at Website of the Ministry and at https://parivesh.nic.in/ . This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional Office of the Ministry.

Annexure 2

Details of the Project

S. No.	Particulars	Details
a.	Details of the Project	Proposed 500 KLPD Multi-feed (B-Heavy Molasses/C-Heavy Molasses/Cane Syrup/Grain) based Distillery along with 10 MW Co-generation Power Plant at Village Jalageri, Tehsil Badami, District Bagalkot, Karnataka by M/s. TruAlt

S. No.	Particulars	Details	
		Bioenergy Ltd. Unit-IV	
b.	Latitude and Longitude of the project site	16.11817675063628,75.55037692271418 16.12560160970244,75.55411546316188	
c.	Land Requirement (in Ha) of the project or activity	Nature of Land involved	Area in Ha
		Non-Forest Land (A)	11.47
		Forest Land (B)	0
		Total Land (A+B)	11.47
d.	Date of Public Consultation	Public consultation for the project was held on	
e.	Rehabilitation and Resettlement (R&R) involvement	NO	
f.	Project Cost (in lacs)	65000	
g.	EMP Cost (in lacs)	6500	
h.	Employment Details		

Details of Products & By-products

Name of the product /By-product	Product / By-product	Quantity	Unit	Mode of Transport / Transmission	Remarks (eg. CAS number)
Ethanol/RS/ENA/IS	Product	500	Kilo Litre per Day (KLD)	Road	Main product
Power	By-Product	10	Mega Watt (MW)	Cables	10 MW Co-generation Power Plant
DDGS	By-Product	220	TPD	Road	DDGS used as Cattle feed
Carbon dioxide (CO2)	By-Product	384	TPD	Road	CO2 plant will be installed

ANNEXURE-3**Details of capital and recurring cost of EMP:**

BREAKUP OF EMP COST				
S. No.	Description		Capital Cost (Crores)	Recurring Cost/annum (Crores)
1.	Air Pollution management	Boiler stack + ESP + Online Monitoring System	15.0	1.5
2.	Effluent Treatment	ZED System, Process Condensate polishing unit and STP	35.0	2.5
3.	Noise & Vibration control	Installation of acoustic barriers and equipment	1.5	0.3
4.	Fugitive Emission control	Water Sprinkling system, closed storage yard	2.0	0.5
5.	Environment monitoring	Lab instrument, Online monitoring System, Third party monitoring, audit	2.0	0.7
6.	Solid waste management	Ash handling & management, Others	7.0	0.5
7.	Greenbelt & plantation development	Plantation for greenbelt	1.0	0.5
8.	Rain water harvesting	Required infrastructure	1.5	-
Total			65.0	6.5

ANNEXURE-4**Details of CER with proposed activities and budgetary allocation:**

REVISED CER BUDGET				
S. No.	PROPOSED ACTIVITIES	IMPLEMENTATION OF EMP FOR SOCIAL AND INFRASTRUCTURE DEVELOPMENT ON THE BASIS OF PHYSICAL TARGETS		TOTAL BUDGET ALLOCATED (RS. IN LAKHS)
		Year 1	Year 2	

1.	Distribution of organic fertilizers to villagers/farmers	Rs. 30 lakhs Village Kadarkoppa	Rs.30 lakhs Village Neerabudihal	Rs. 60 lakhs
2.	Improvement network & Repair works of road	Rs. 100.0 Lakhs (2.5 km stretch of Plant approach road from Kerkalmatti village)	Rs. 100 Lakhs (2.5 km stretch of road from Kerkalmatti to Gangan budihal)	Rs. 200.0 lakhs
3.	Up gradation of Rural School infrastructure & Educational facilities- Provide Interactive smart class equipment like desktop computers, projectors, Interactive White Boards, distribution of study materials, potable water facility and solar panel installation.	Rs. 50.0 Lakhs (Govt school in Village Jalageri & Kerkalmatti) (4 nos. potable water facilities- Rs. 5 lakhs, solar panels installation- Rs. 25 lakhs, Rs 20 lakhs for desktop computers, projectors, Interactive White Boards and distributing study materials, school bags, sports equipment, etc.)	Rs. 50.0 Lakhs (Govt school in Village Neerabudihal & Gangan Budihal) (4 nos. potable water facilities- Rs. 5 lakhs, solar panels installation- Rs. 25 lakhs, Rs 20 lakhs for desktop computers, projectors, Interactive White Boards and distributing study materials, school bags, sports equipment, etc.)	Rs. 100.0 lakhs
4.	Skill development for youth- Organising Training programmes for youth/residents in Skill Development centre. Training will be provided with respect to functioning of Effluent Treatment Plant, Solid Waste Management etc.	Rs. 75.0 lakhs (Village- Kerkalmatti, Jalageri) Benefit extended to approx.100 persons)	Rs. 75.0 lakhs (Village – Kadarakoppa, Neerabudihal) Benefit extended to approx. 100 persons	Rs. 150.0 lakhs
5.	Provision of potable drinking water to nearby villages	Rs. 20.0 lakhs (Village – Kadarakoppa, Neerabudihal)	Rs. 20.0 lakhs (Village-Kerkalmatti, Jalageri)	Rs. 40.0 lakhs
6.	Health Care facilities– Strengthen the medical	Rs.150.0 Lakhs (Village Jalageri)	Rs. 150.0 Lakhs (Village Hoolageri)	Rs 300.0 lakhs

	Centers by distributing medical equipment etc., Ambulance service for 24 hours in Community health care centers; six monthly conduction of health camps and immunity development awareness program	(For medical equipments (Stethoscope, BP machine, Autoclave sterilizer, monitoring thermometer, pulse oximeter, Oxygen cylinders, surgical kit, for hospital furniture, Ambulance facility, six monthly conduction of health camps and immunity development awareness program)	(For medical equipments (Stethoscope, BP machine, Autoclave sterilizer, monitoring thermometer, pulse oximeter, Oxygen cylinders, surgical kit, for hospital furniture, Ambulance facility, six monthly conduction of health camps and immunity development awareness program)	
7.	Social Infrastructure development- Solar panels installation in nearby village areas, development of rainwater harvesting ponds	Rs. 50 Lakhs (Solar panels installation in Village Neerabudihal, Jalageri- Rs.30 lakhs, development of rainwater harvesting ponds- Rs. 20 lakhs)	Rs. 50 Lakhs (Solar panels installation in Village Kadarakoppa, Gangan Budihal - Rs.30 lakhs, development of rainwater harvesting ponds- Rs. 20 lakhs)	Rs. 100.0 lakhs
8.	Plantation- Plantation/ Avenue plantation along roadside, tree plantation in nearby schools/colleges/ vacant land/ Panchayat bhavan, etc.	Rs. 25 Lakhs (Village Neerabudihal, Jalageri) 5000 trees in each village	Rs. 25 Lakhs (Village Kadarakoppa, Gangan Budihal) 5000 trees in each village	Rs. 50.0 lakhs
TOTAL				Rs. 1000 Lakhs

ANNEXURE-5

The main issues raised during the public hearing and their action plan:

S. No.	Name of the Person	Public Comments/ objections/ suggestions in brief	Reply of Project Proponent	Action Plan along with budgetary allocation
1.	Shree Govindappa Naik, Kadarakoppa village	- Industry has emerged as a ray of hope for farmers financially. - PP will provide organic fertilizer to the farmers to increase the yield crops.	- The company will take appropriate measures to continue smooth operation of plant & prevent environmental pollution in all respect. - Organic fertilizers will be distributed to farmers as part of CER activities.	CER Plan: Budget for distribution of organic fertilizers: Rs.60 lakhs in 2 villages for 2 years.
2.	Shri Ramanagouda Naik, Kadarakoppa Village			
3.	Shri Marutayya Moti, Neerabudihal village			
4.	Shri Balavantappa Balavantappanna var, Neerabudihal village	- Problem of dust falling from the factory in surrounding villages but this year PP has taken all appropriate action towards dust falling. - Financially prosperous as even small farmers are growing sugarcane for supply to industry.		EMP Cost: Capital Cost: 65.0 crores Recurring Cost/annum: 6.5 crores. Refer Annexure – 3 above
5.	Shri Marutayya Moti, Neerabudihal village			
6.	Shri Chinnappagouda Giddappagol, Jalageri village			

7.	Smt. Manjula, Dnyan Kendra Vidya Samsthe, Chitradurga			
8.	Shri Venkappa Goudar, Ex- army, Bandakeri village	• Employment opportunities to the surrounding villagers and farmers children will be generated by establishment of this proposed distillery unit. • Farmers in the vicinity will be financially benefitted from proposed unit. • Timely sugarcane payment to farmers.	There will be direct & indirect jobs and business opportunities to the local people such as daily wage labour, transporters and raw material suppliers. The manpower required for the proposed project will be 150 persons. 100 person will be required for construction phase (Temporary 90 persons & permanent 10 persons) Source: Unskilled/semi-skilled manpower from local area and skilled from outside/local.	
9.	Shri Krishnagouda Nadagoudar, Kerakalamatti village			
10.	Shri Shankrappa Halagatti, Hoolageri village			
11.	Shri Raju Kakaraddi, Advocate, Hoolageri village			
12.	Shri Basavaraj Nadamani, Yendigeri village			
13.	Shri Sangayya Saraganachari, Agasanakoppa village			
14.	Shri Hanamant Daddi, Ganganabudihal village			
15.	Shri Pandappa Kanasageri, Bhavalatti village	• Increased accessibility as farmers got benefitted from sending sugarcane to the mills after purchase of unit by MRN Foundation.	The confidence shown by villagers motivates them to do more projects.	
16.	Shri Ramachandra Mailar,			

	Chinchlatti village			
17.	Shri Gurunath Shilavantar, Jalageri village			
18.	Shri Sanganna Bilagi, Yendigeri village	- Inadequate prices on gram, paddy & wheat. - If any problem will arise from the factory, they will request industry authorities and they will take immediate measures to solve the problems.	The company will take appropriate measures to continue smooth operation of plant & prevent environmental pollution in all respect. Mitigation Measures: 1. ESP will be installed to control the suspended particulate emissions due to combustion of fuel within statutory limit of 50 mg/Nm³. 2. CO₂ generated during fermentation process will be collected and sold to vendors. 3. Spent wash generated from the analyzer column during the operation, will be concentrated in integrated & standalone Multi – Effect Evaporator (MEE). 4. The Concentrated Slop from MEE shall be burnt in the proposed 125 TPH boiler.	
19.	Shri Hoovappa Rathod, Ex-Zilla Panchayat Member			

			5. The Distillery will be based on “Zero Effluent Discharge”. 6. Whole Slops during grain based operation will be passed through Centrifuge Decanters for separation of suspended solids separated as Wet Cake. 7. Thin Slops from the Decanter Centrifuge will be partly recycled to process (20% to 30%) and the balance will be fed to Thin Slop Evaporation Plant for concentration of remaining solids to form Slop Syrup of 30% - 35% w/w TS and partly recycled. These will be combined & sent for drying in a Dryer. 8. The DDGS will be utilized as Cattle, poultry & fish feed ingredients. 9. Proper maintenance, oiling and greasing of machines at regular intervals will be done to reduce generation of noise. 10. Ash generated during grain based distillery operation will be given to nearby brick	
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			manufacturers in covered vehicles only. 11. Adequate greenbelt all around the periphery of the plant will be maintained. 12. DWGS dryer will be installed for complete drying of Solids.	
20.	Shri Gangayya Hiremath, Koppa S.K.village	- A fire incident destroyed 25 acres of sugarcane crop but M/s. MRN Foundation had taken the sugarcane and paid full amount without deduction which is commendable. - Companies like M/s. MRN Foundation should grow even more.	- MRN Foundation has started 03 Sugar Plant and Distillery in Badami Taluk due to this local people got more employment opportunities and farmers become economically stable. - TruAlt Bioenergy is the largest ethanol producer in Asia and the company is praised by Hon'ble Prime Minister & Minister of Petroleum.	
21.	Shri Ramaling Borennavar, Neerabudihal village	Road from Hoskeri Cross to Kerakalammti is poor and tractors are rolling down while transporting sugarcane and that road needs to be repaired urgently.	PP ensures that necessary action will be taken regarding repair of the road.	CER Plan: Repair works of road (2.5 km stretch of Plant approach road from Kerkalmatti village and 2.5 km stretch of road from Kerkalmatti to Ganganbudihal): Rs. 200 Lakhs

Action Plan to the written representations:

S. No	Name of the Person	Written Comments/ objections/ suggestions in brief	Reply of Project Proponent	Action Plan along with budgetary allocation
1.	Shalini Environmental Educational Society, Subhash Road, Ananthapuram u dated 10.1.24	- The project will provide employment opportunities to nearby people and also provide Personal protective equipment to workers. - Greenbelt will be provided as per norms. - The proposed project will be beneficial to the local people as more infrastructure development improvement in education and health facilities, Roads, availability of drinking water, increased social welfare measure taken by the company that will bring development in the nearby villages.	- There will be direct & indirect jobs and business opportunities to the local people such as daily wage labour, transporters and raw material suppliers. The manpower required for the proposed project will be 150 persons. - The company will provide PPEs for workers. - The company will carry out Avenue plantation along roadside, tree plantation in nearby schools/colleges/ vacant land/ Panchayat bhavan, etc. - The company will propose various social economic development activities- Education, health facilities, roads, and various social welfare activities as part of CER.	1.5 crores have been allocated for skill development of youth for better development. 50 lakhshave been allocated for Plantation in nearby areas. 1.0 crore have been allocated for upgradation of School infrastructure & Educational facilities. 3.0 crores have been allocated for upgradation of health facilities in nearby villages. 2.0 crores have been allocated for repairworks of road. 40 lakhs have been allocated for provision of potable drinking water to nearby villages
2.	K. Sreenivasa Murthy Secretary, Dharani Ever Green Welfare Society, Ballari dated 10.1.24	Following suggestions given: - Plantation in the surrounding villages with variety of tree, Species and herbal, fruit bearing types and to develop avenue plantation. - Greenbelt will be developed within the premises of the project. - CPCB & CREP guidelines will be followed.	- The company will plant Avenue plantation along roadside, tree plantation in nearby schools/colleges/ vacant land/ Panchayat bhavan, etc. - Out of the total plant area, 33% area will be developed under Greenbelt development and plantation. - Ground water will be monitored half yearly at nearby villages as part of post project monitoring. The same has been addressed in Chapter VI of the EIA/EMP report.	50 lakhshave been allocated for Plantation in nearby areas. 1.0 crores of EMP budget have been allocated for greenbelt development and plantation in plant premises. - Total 10.0 crores have been allocated for CER activities covering all aspects as proposed.

S. No	Name of the Person	Written Comments/ objections/ suggestions in brief	Reply of Project Proponent	Action Plan along with budgetary allocation
		4. Incorporate public health status and ground water status of the area. 5. Providing the nearby villages in the employment. 6. CSR activities will be carried out in the local area which will improve the social economic status of the local people.	- There will be direct & indirect jobs and business opportunities to the local people such as daily wage labour, transporters and raw material suppliers. The manpower required for the proposed project will be 150 persons. - CPCB & CREP guidelines will be followed. - The company will have the provision of various social economic development activities.	
3.	CS Rangamma, Secretary, Akshara Grameena Vikas Samsthe dated 10.1.24	- The project will provide employment opportunities to nearby people and also provide Personal protective equipment to workers. - Greenbelt will be provided as per norms. - The proposed project will be beneficial to the local people as more infrastructure development improvement in education and health facilities, Roads, availability of drinking water, increased social welfare measure taken by the company that will bring development in the nearby villages.	- There will be direct & indirect jobs and business opportunities to the local people such as daily wage labour, transporters and raw material suppliers. The manpower required for the proposed project will be 150 persons. - The company will provide PPEs for workers. - The company will carry out Avenue plantation along roadside, tree plantation in nearby schools/colleges/ vacant land/ Panchayat bhavan, etc. - The company will propose various social economic development activities- Education, health facilities, roads, and various social welfare activities as part of CER.	1.5 crores have been allocated for skill development of youth for better development. 50 lakhs have been allocated for Plantation in nearby areas. 1.0 crore have been allocated for upgradation of School infrastructure & Educational facilities. 3.0 crores have been allocated for upgradation of health facilities in nearby villages. 2.0 crores have been allocated for repair works of road. 40 lakhs have been allocated for provision of potable drinking water to nearby villages
4.	B. Venkatesh, President, Haritha Educational	Following suggestions given: 1. Provide employment in	There will be direct & indirect jobs and business opportunities to the local people such as daily wage labour, transporters and	1.5 crores have been allocated for skill development of youth for better development.

S. No	Name of the Person	Written Comments/ objections/ suggestions in brief	Reply of Project Proponent	Action Plan along with budgetary allocation
	Rural Welfare Society, Uravakonda, Ananthapuram u dated 10.1.24	this project for local people. 2. Take up more plantation in this project surroundings. 3. Provide education, Health, Economical activities for local people. 4. CSR funds in nearby Villages.	raw material suppliers. The manpower required for the proposed project will be 150 persons. - The company will carry out Avenue plantation along roadside, tree plantation in nearby schools/colleges/ vacant land/ Panchayat bhavan, etc. - The company will propose various social economic development activities- Education, health facilities, roads, and various social welfare activities as part of CER.	50 lakhs have been allocated for Plantation in nearby areas. 1.0 crore have been allocated for upgradation of School infrastructure & Educational facilities. 3.0 crores have been allocated for upgradation of health facilities in nearby villages. - Total 10.0 crores have been allocated for CER activities covering all aspects as proposed.
5.	Manjula, President, G.K. Education & Rural Urban Development Society, Challakere Road, Chitradurga dated 10.1.24	- The project will provide employment opportunities to nearby people and also provide Personal protective equipment to workers. - Greenbelt will be provided as per norms. - The proposed project will be beneficial to the local people as more infrastructure development improvement in education and health facilities, Roads, availability of drinking water, increased social welfare measure taken by the company that will bring development in the nearby villages.	- There will be direct & indirect jobs and business opportunities to the local people such as daily wage labour, transporters and raw material suppliers. The manpower required for the proposed project will be 150 persons. - The company will provide PPEs for workers. - The company will carry out Avenue plantation along roadside, tree plantation in nearby schools/colleges/ vacant land/ Panchayat bhavan, etc. - The company will propose various social economic development activities- Education, health facilities, roads, and various social welfare activities as part of CER.	1.5 crores have been allocated for skill development of youth for better development. 50 lakhs have been allocated for Plantation in nearby areas. 1.0 crore have been allocated for upgradation of School infrastructure & Educational facilities. 3.0 crores have been allocated for upgradation of health facilities in nearby villages. 2.0 crores have been allocated for repair works of road. 40 lakhs have been allocated for provision of potable drinking water to nearby villages

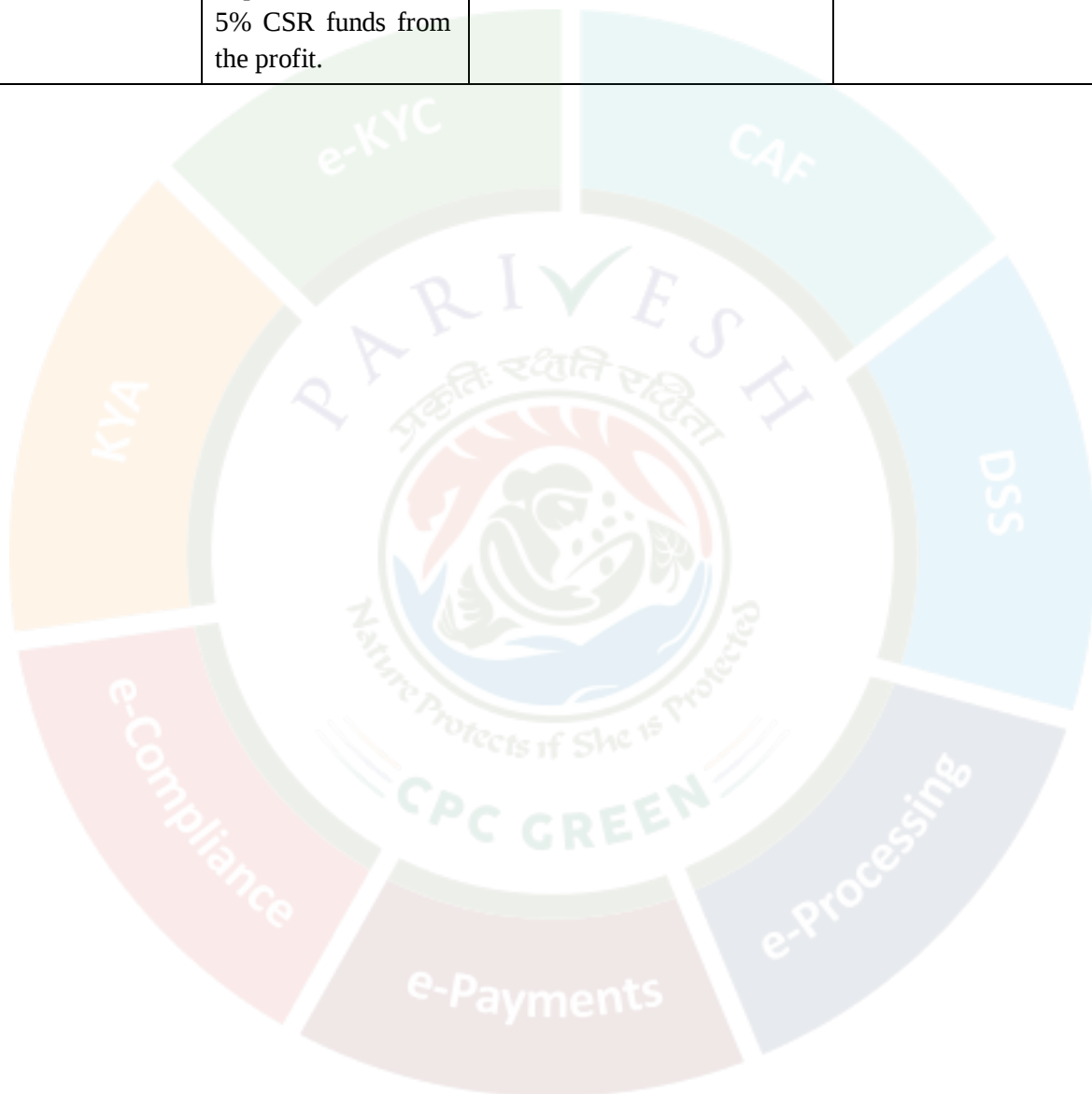
S. No	Name of the Person	Written Comments/ objections/ suggestions in brief	Reply of Project Proponent	Action Plan along with budgetary allocation
6.	D. Govardhan, Secretary, Friends of the earth social services, Davangere dated 10.1.24	1. The project will provide 75% of employment opportunities to nearby people. 2. Greenbelt will be provided as per norms. 3. CSR and CER activities will be carryout by the project authority. 4. Personal Protective Equipment will provide for employees. 5. The project will conduct community developmental activities like – Hospitality, Education, Self-develop groups, Irrigational facilities etc. 6. Socio economic development will improve the nearby areas. 7. The project has to take care of the sound, air and water pollutions.	• There will be direct & indirect jobs and business opportunities to the local people such as daily wage labour, transporters and raw material suppliers. The manpower required for the proposed project will be 150 persons. • Out of the total plant area, 33% area will be developed under Greenbelt development and plantation. • The company will have the provision of various social economic development activities- Education, health facilities, roads, and various social welfare activities. • The company will provide PPEs for workers. • The company will regularly monitor Air, Noise and water in nearby areas.	• 1.5 crores have been allocated for skill development of youth for better development. • 1.0 crore of EMP budget have been allocated for greenbelt development and plantation in plant premises. • 50 lakhs have been allocated for Plantation in nearby areas. • Total 10.0 crores have been allocated for CER activities covering all aspects as proposed. • EMP capital cost of 2.0 crore and 0.7 core recurring cost have been allocated for Environment monitoring.
7.	Vootkuri Sunanda Reddy, President, Dharithri Paryavarana Parirakshana Samstha, Nalgonda, Telangana dated 08.1.24	Few suggestions to maintain ecological balance and development of your Industry activity. 1. Your consultant had already conducted baseline survey of air, water, land it is very good and satisfactory. My request is please collect the data pf	• Rainwater harvesting structures (1 no. of tank 9m x 9m x 3m & 1 pond of 36m x 37m & 2.5 m) have been proposed wherein rainwater will be collected and reused in plant activities. This will reduce freshwater requirement of the plant. • The company will carry out Avenue plantation along roadside, tree plantation in nearby schools/colleges/ vacant	• EMP capital cost of 1.5 crore have been proposed for rainwater harvesting. • 50 lakhs have been allocated for Plantation in nearby areas. • 1.5 crores have been allocated for skill development of youth for better development. • Total 10.0 crores have been allocated

S. No	Name of the Person	Written Comments/ objections/ suggestions in brief	Reply of Project Proponent	Action Plan along with budgetary allocation
		the health status of the people, data of crop production status and groundwater availability within radius of 10 km. It is very useful in future and utilize as a parameter to take precautionary affective measures to maintain ecological balance. 2. My humbly request you to construct water harvesting structures and storage to store rain water it is useful for you usage in industry and also develop groundwater levels in this area. And also whatever usage water for industry. Collect and storage in rain season it is useful in non rain days for your industry. 3. Please take up village plantation in nearby villages and also avenue plantation for internal roads on which roads your vehicles transport the materials to control dust pollution. My request is you should give priority to plant fruit baring plants and medicinal	land/ Panchayat bhavan, etc. - There will be direct & indirect jobs and business opportunities to the local people such as daily wage labour, transporters and raw material suppliers. The manpower required for the proposed project will be 150 persons. - The company will have the provision of various social economic development activities through upgradation of health facilities along with six monthly conduction of health camps and immunity development awareness program, upgradation of education facilities along with rural primary education for weaker sections & various social welfare activities.	for CER activities covering all aspects as proposed. 3.0 crores have been allocated for upgradation of health facilities along with six monthly conduction of health camps and immunity development awareness program in nearby villages. 1.0 crore have been allocated for upgradation of School infrastructure & Educational facilities along with rural primary education for weaker sections.

S. No .	Name of the Person	Written Comments/ objections/ suggestions in brief	Reply of Project Proponent	Action Plan along with budgetary allocation
		value plants instead of normal plants it is very useful to control dust pollution and also available fruits in nearby villages. 4. Please give top priority to the local educated unemployed youth to give employment in your industry. 5. My humble request is to promote skill development training to unemployed youth to better skills useful to get employment chances in your industry remaining youth to get jobs in other places, Countries like Japan and Korea 95% of youth they got skill development in India only 5 to 6% youth skilled persons. 6. My request is to form a co-ordination committee with you company officials, Govt. officials and PCB officials and villagers to take up plan of action of CSR budget it is very useful and meaningful to take up demand-		

S. No	Name of the Person	Written Comments/ objections/ suggestions in brief	Reply of Project Proponent	Action Plan along with budgetary allocation
		oriented works, with this activity a great credibility come to you. 7. Please conduct health camps and motivate health immunity development awareness programs 8. Please support rural primary education for weaker sections.		
8.	T. Satti Reddy, President, Earth green development society, Vansthalpura m, Hyderabad dated 10.1.24	The management proposed project beneficial to the local village people. As more infrastructure development and improvement to the network of the roads in the village area. Provide dust masks to prevent exposure of dust. Provide personal protective equipments to workers. Avenue the plantations at the project area and developed the surrounding villages Tighten the tarpaulin sheets on the loading vehicles. Heat near furnace area will be monitored regularly. The management conduct the medical camps to the local village people for the health point of view.	- The company will improve the network of village roads along with repair works. - Proper PPEs will be provided to the workers including dust masks to prevent dust exposure. - The company will carry out Avenue plantation along roadside, tree plantation in nearby schools/colleges/ vacant land/ Panchayat bhavan, etc. - All the vehicles carrying raw material & products will be covered. - The company will have the provision of various social economic development activities through upgradation of health facilities along with six monthly conduction of health camps and immunity development awareness program. Health cards will be issued. - The company has been/ will be exploring increase of CSR fund which will be incurred from internal profits.	2.0 crores have been allocated for networking & repair works of road. 50 lakhs have been allocated for Plantation in nearby areas. 3.0 crores have been allocated for upgradation of health facilities along with six monthly conduction of health camps and immunity development awareness program in nearby villages.

S. No .	Name of the Person	Written Comments/ objections/ suggestions in brief	Reply of Project Proponent	Action Plan along with budgetary allocation
		The management issue the health cards to them. The company will improve memento 5% CSR funds from the profit.		



Appendix – I (Contd.)

Copies of Approvals

2. *Consent to Establish from KSPCB*



Karnataka State Pollution Control Board
Parisara Bhavana, No.49, Church Street, Bengaluru-560001

Tele : 080-25589112/3,
25581383/388

Fax: 080-25586321

Email id: ho@kspcb.gov.in

Consent For Establishment (CFE) - (CfE-Fresh)

As per the provisions of
The Water (Prevention & Control of Pollution) Act, 1974
&
The Air (Prevention & Control of Pollution) Act, 1981

To
Trualt Bioenergy Limited Unit IV, Jalageri village, Badami-Tq, Bagalkot-Dist

for the Facility located at,
Trualt Bioenergy Limited Unit IV, SY. NO. 36/1, 36/2, 36/3, 36/4, 36/5, 37/2, 37/3, 37/4 & 37/5, Jalageri village, Badami-Tq, Bagalkot-Dist
Bagalkot

Consent Order No	PCBID	INW ID	Industry Colour/Scale	Date of Issue
CTE-343294	181935	212255	RED/LARGE	13/05/2024

This Consent is granted for the Products/ Activity/Service name indicated in the annexure along with the terms & conditions attached to this order

Validity : **12/05/2029**



ISO 9001:2015 & 14001:2015 Certified

Combined Consent Order No: CTE-343294**PCB ID:** 181935**GSC No :** PB0XG0000202255**Date:** 13/05/2024

To,

The Applicant

Trualt Bioenergy Limited Unit IV

Jalageri village, Badami-Tq, Bagalkot-Dist

Sir,

Sub: Consent to Establish under the Water (Prevention & Control of Pollution) Act, 1974 & the Air (Prevention & Control of Pollution) Act, 1981-reg.,

Ref: 1. CFE application submitted by the industry/organization on 03/11/2023 at Regional Office

2. Inspection of the project site by Regional Officer Bagalkote on 06/11/2023

3.Proceedings of the ECM dated

With reference to the above, Karnataka State Pollution Control Board hereby accords **Consent for Establishment** for new Activity under the Water (Prevention & Control of Pollution) Act, 1974 & the Air (Prevention & Control of Pollution) Act, 1981 at the location indicated below subject to the following terms & conditions.

Location:

Name of the Applicant: Trualt Bioenergy Limited Unit IV

Address: SY. NO. 36/1, 36/2, 36/3, 36/4, 36/5, 37/2, 37/3, 37/4 & 37/5, Jalageri village, Badami-Tq, Bagalkot-Dist

Industrial Area: Not In I.A, Jalageri village,

Taluk: Badami, District: Bagalkot

Conditions:

1. This consent for establishment is valid up to 12/05/2029 from the date of issue.
2. The applicant shall not undertake expansion/diversification without the prior consent of the Board.
3. The applicant shall obtain necessary license/clearance from other relevant statutory agencies as required under the law.
4. This consent is granted considering the following activities:

Sr	Product Name	Applied Qty	Unit
1	co-gen power plant	10.0000	Mega Watt
2	Multi-feed distillery unit (B-Heavy molasses/ C-Heavy molasses/ Cane syrup/ Grain based) for manufacturing Ethanol / RS/ ENA/ IS	500.0000	Kilo Litres/Day

I. WATER CONSUMPTION:

1. The source of water shall be from Recycled, River and total water consumption shall be as below.

Particulars	Water consumption(KLD)
Boiler Feed	2208.0
Cooling Water	2200.0
Domestic Purpose	30.0
Manufacturing Processes	3966.0
Others	5.0
Others	210.0

II. WATER POLLUTION CONTROL:

- 1.The discharge from the premises of the applicant shall pass through the terminal manhole/manholes where from the Board shall be free to collect samples in accordance with the provisions of the Act or Rules made there under.
2. The applicant shall treat the domestic wastewater from the factory in septic tank with soak pit. No overflow from the soak pit is allowed. The septic tank and soak pit shall be designed as per IS 2470 Part - I and Part- II
3. The applicant shall treat the domestic wastewater in the Sewage Treatment Plant (STP) as per the proposal submitted. It shall meet the standards specified in Annexure-I & shall be used on land for gardening/greenbelt within the factory premises.
4. The quantity of domestic waste water and trade effluent generated from the proposed industry shall not exceed the permitted quantity as indicated below

Discharge of effluents under the Water Act:

Sl. No.	Description	Permitted Quantity of discharge in KLD	Mode/Place of disposal
4	Boiler Feed	30.000	Refer additional conditions
5	Cooling Water	200.000	Refer additional conditions
6	Domestic Purpose	13.000	Refer additional conditions
1	Manufacturing Processes	5135.000	Refer additional conditions
2	Others	207.000	Refer additional conditions
3	Others	5.000	Refer additional conditions

5. The applicant shall treat the trade effluent in proposed ETP which consists of the following;

STP & ETP details

SlNo	ETP/STP NO	ETP Code	Category Name	Capacity (Meter Cubic)	Units	Remarks
1	ETP1	CLA	P-Clarifier	442.00	1	
2	ETP1	CLA	P-Clarifier	71.00	1	Chlorination Tank
3	ETP1	CLA	P-Clarifier	40.00	1	Alkali Dosing Tank

4	ETP1	EQU	P-Equalization Tank	792.00	1	
5	ETP1	PRI	Primary	175.00	1	RO Reject B/W Tank
6	ETP1	PRI	Primary	110.00	1	RO Reject break tank
7	ETP1	PRI	Primary	380.00	1	RO Permeate Tank
8	ETP1	PRI	Primary	395.00	1	Final RO reject Tank
9	ETP1	PRI	Primary	570.00	1	Soft Water Tank
10	ETP1	PRI	Primary	919.00	1	Raw Water Tank
11	ETP1	PRI	Primary	560.00	1	Filter Feed Tank
12	ETP1	PRI	Primary	380.00	1	RO Feed Tank
13	ETP1	AER	S-AERATION TANK	700.00	1	
14	STP1	STP	Sewage Treatment Plants	25.00	1	
15	ETP1	MEE	T-Mlt. Effect Evaporator	500.00	1	
16	ETP1	TER	Tertiary	5500.00	1	CPU- 5500 KLD

6. The applicant shall ensure that the ETP will treat the effluent to the stipulated standards as indicated in Annexure-I

7. The applicant shall not discharge any effluent outside the industry premises.

8. The applicant shall provide separate flow meter for inflow & outflow of effluents through ETP and separate energy meter and shall maintain a logbook for hourly record of meter reading for the verification of inspecting officers

9. The applicant shall discharge the effluents only to the place mentioned in the Consent order.

III. AIR POLLUTION CONTROL:

1. The Source of emission, Stack height & Air Pollution Control (APC) measures shall be as specified in ANNEXURE-II.

2. The applicant shall provide port holes for sampling of emission, access platforms for carrying out stack sampling, electrical points and all other necessary arrangements including ladder as indicated in Annexure-II.

3. The applicant shall upgrade/modify/replace the control equipment with prior permission of the Board.

IV. NOISE POLLUTION CONTROL:

The applicant shall ensure that the ambient noise levels within its premises during construction and during operational period shall not exceed w.r.t Area/Zone as per Noise Pollution (Regulation and Control) Rules, 2000 as mentioned below:-

- a) In Industrial Area 75 dB(A) Leq during day time and 70 dB(A) Leq during night time.
- b) In Commercial Area 65 dB(A) Leq during day time and 55 dB(A) Leq during night time.
- c) In Residential Area 55 dB(A) Leq during day time and 45 dB(A) Leq during night time.
- d) In Silence Zone 50 dB(A) Leq during day time and 40 dB(A) Leq during night time.

Note: - * Day time shall mean 6 am to 10 pm and Night time shall mean 10 pm to 6 am.

- * dB(A) Leq denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.
- * A “decibel” is a unit in which noise is measured.
- * “A”, in dB(A) Leq, denotes the frequency weighting in the measurement of noise and corresponds to frequency response characteristics of the human ear.
- * Leq: It is an energy mean of the noise level over a specified period.

V. SOLID WASTE (OTHER THAN HAZARDOUS WASTE) DISPOSAL:

1. The applicant shall collect, treat and dispose off all solid waste generated from the process other than wastes covered under the Hazardous and other Wastes (Management & Transboundary Movement) Rules 2016, in such manner so as not to cause environmental pollution.
2. The details of solid waste generated from the proposed plant and mode of disposal shall be as below.

Sr	Solid Waste Name/Type	Qty-Unit	Mode of Disposal
1	Ash generated from Conc. Spent wash & Bagasse	4740.0000 - M.T	OTH
2	DDGS	6600.0000 - M.T	OTH
3	Ash generated from Bagasse (during grain operation	360.0000 - M.T	OTH
4	CPU Sludge	30.0000 - M.T	OTH
5	Yeast sludge	30.0000 - M.T	OTH

VI. HAZARDOUS AND OTHER WASTES (MANAGEMENT & TRANSBOUNDRY MOVEMENT) RULES 2016:

1. The applicant shall apply and obtain authorization under Hazardous and Other Wastes (Management & Transboundary Movement) Rules 2016, and comply with the provisions of the said Rules.

VII. GENERAL:

1. The applicant shall obtain prior permission from the competent authority for drawing of water from Surface/Ground water source and submit a copy of the same to the Board.
2. The applicant shall transport and store the raw materials in a manner so as not to cause any damage to environment, life and property. The applicant shall be solely responsible for any damages to environment.
3. The applicant shall not commission the proposed plant for trial or regular production unless necessary Water & air pollution control equipments are installed as specified in the Consent Order.
4. The applicant shall ensure that the treatment plant and control equipments are completed and commissioned simultaneously along with construction of the factory and erection of machineries.
5. The applicant shall not change or alter (a) raw materials or manufacturing process, (b) change the products or product mix (c) the quality, quantity or rate of discharge/emissions and (d) install/replace/alter the water or air pollution control equipments without the prior approval of the Board.
6. The applicant shall immediately report to the Board of any accident or unforeseen act or event resulting in release of discharge of effluents or emissions or solid wastes etc. in excess of the standards stipulated. And the industry shall immediately take appropriate corrective and preventive actions under intimation to the Board.
7. The Board reserves the right to review, impose additional condition or conditions, revoke, change or alter the terms and conditions.
8. This CFE does not give any right to the Party/Project Authority/Industry to forego any other legal requirement, that is necessary for setting/operation of the plant.
9. The applicant shall furnish pointwise compliance to the conditions given under this consent for establishment along with the application for Consent to operate.
10. The applicant is liable to reinstate or restore, damaged or destroyed elements of environment at his cost, failing which, the applicant/occupier as the case may be shall be liable to pay the entire cost of remediation or restoration in advance an amount equal to the cost estimated by Competent Agency or Committee.
11. The applicant shall comply with all the Conditions and guidelines issued from time to time.
12. The applicant must create structure/facility for rain water harvesting and ground water recharge.
13. The applicant shall develop extensive green belt within the periphery of the plant.
14. This consent is issued without prejudice to Court Cases pending in any Hon'ble Court.

Please note that this is only consent for establishment issued to you to proceed with the formalities for establishment of the industry and does not give any right to proceed with trial/regular production. For this purpose, separate consents of the Board for discharge of liquid effluent and the emissions to the air shall have to be obtained by remitting prescribed consent fee. The application for consent has to be made 120 days in advance of commissioning for trial production of the plant.

The receipt of this letter may please be acknowledged.

Consent Fee paid	: Rs. 1400000
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Note:

The Conditions Nil mentioned in the schedule are not applicable.

COPY TO:

1. The Environmental Officer, KSPCB, Regional Office, Bagalkote for information and to inspect the industry during your next visit to the area.
2. Master copy (Dispatch).
3. Office copy.

ANNEXURE- II

Chi m.N o.	Chimne y attached to	Capacity/ KVA Rating	Minimum chimney height to be provided above ground level (in Mts)	Constituents to be controlled in the emission	Tolerance limits mg/NM3	Fuel	Air pollution Control equipment to be installed,in addition to chimney height as per col.(4)	Date of which air pollution control equipments shall be provided to achieve the stipulated tolerance limits and chimney heights conforming to stipulated heights.
1	D.G. Sets	DG Set - 1500 KVA	30	PM,SO ₂ ,NO _x ,C O, NMHC	75,-,710,150,1 00	DIE	AEC,PRT	Before Commissioning
2	D.G. Sets	DG Set - 1500 KVA	30	PM,SO ₂ ,NO _x ,C O, NMHC	75,-,710,150,1 00	DIE	AEC,PRT	Before Commissioning
3	Boiler	Incinerati on Boiler - 125 TPH	75	PM,SO ₂ ,NO _x ,C O, NMHC	50,100,100,-,-	BAG	ESP,PRT	Before Commissioning

Additional Conditions:

1. The occupier shall comply with all the Additional Conditions and Standards stipulated in Annexure 1, A & B attached with this consent order.
2. This consent order contains 16 pages including Additional Conditions and Annexures.
3. The products with quantities, water consumption, waste water generation, mode of disposal with standards, air pollution sources with control measures mentioned in Additional Conditions attached with this order shall be considered and to be complied by the industry.
4. The CFE is issued for establishing a new Multi-feed distillery unit (B-Heavy molasses/ C-Heavy molasses/ Cane syrup/ Grain based) for manufacturing of Ethanol / Rectified Spirit/ Extra Neutral Alcohol/ Impure Spirit of capacity 500 KLPD and Co-Generation Power Plant of 10 MW.
5. In any case, the production capacity of Ethanol / Rectified Spirit/ Extra Neutral Alcohol/ Impure Spirit shall not exceed 500 KLPD.
6. The applicant shall not start the project activity until the issue of Environmental Clearance from MoEF & CC, GoI. The applicant is bound by the terms and conditions of the Environmental Clearance.



Note:

AEC,PRT : Accoustic Enclosures

ESP,PRT : E.S.P

LOCATION OF SAMPLING PORTHOLES, PLATFORMS, ELECTRICAL OUTLET.

1. Location of Portholes and approach platform:

Portholes shall be provided for all chimneys, stacks and other sources of emission. These shall serve as the sampling points. The sampling point should be located at a distance equal to atleast eight times the stack or duct diameters downstream and two diameters upstream from source of low disturbance such as a Bend, Expansion, Construction Valve, Fitting or Visible Flame or rectangular stacks, the equivalent diameter can be calculated from the following equation.

$$\text{Equivalent Diameter} = \frac{2 (\text{Length} \times \text{Width})}{(\text{Length} + \text{Width})}$$

2. The diameter of the sampling port should not be less than 100mm dia". Arrangements should be made so that the porthole is closed firmly during the non sampling period.
3. An easily accessible platform to accommodate 3 to 4 persons to conveniently monitor the stack emission from the portholes shall be provided. Arrangements for an Electric Outlet Point of 230 V 15 A with suitable switch control and 3 Pin Point shall be provided at the Porthole location.
4. The ladder shall be provided with adequate safety features so as to approach the monitoring location with ease.

FOR AND ON BEHALF OF
KARNATAKA STATE POLLUTION CONTROL BOARD

Signature Not Verified
Digitally signed by
Date: 2024.05.13 18:25:16
+05:30

Appendix – I (Contd.)

Copies of Approvals

3. *Amended IEM License*

No: 796/N/SIA/IMO/2022
Government of India
Ministry of Commerce and Industry
Department for Promotion of Industry and Internal Trade
(Industrial Entrepreneurs Memorandum Section)

Amendment No: 2



Authenticity of the document can be verified by scanning the QR code.

New Delhi 02/04/2025

To
TRUALT BIOENERGY LIMITED
SURVEY NO 166
KULALI CROSS
JAMKHANDI
MUDHOL ROAD
BAGALKOT
BAGALKOT
Karnataka-587313

Subject: IEM application of TRUALT BIOENERGY LIMITED for the manufacture of FLOUR MILLING

Reference: This Ministry's IEM Acknowledgement no.796/N/SIA/IMO/2022 dated 20/09/2022

I am directed to refer to your letter(s) No. 796/N/SIA/IMO/2022 dated 20/09/2022 on the above mentioned subject and to say that the following corrections / modification / amendments are made in the ministry's IEM Acknowledgment No. 796/N/SIA/IMO/2022 dated 20/09/2022. Press note no. 17(1997 series) enclosed.

	Existing	Amended
Name of Entity	TRUALT BIOENERGY LIMITED	TRUALT BIOENERGY LIMITED
Registered Address	SURVEY NO 166, KULALI CROSS, JAMKHANDI, MUDHOL ROAD, BAGALKOT, BAGALKOT, Karnataka-587313	SURVEY NO 166, KULALI CROSS, JAMKHANDI, MUDHOL ROAD, BAGALKOT, BAGALKOT, Karnataka-587313
Location	S Y NO 166, KULALI CROSS, JAMKHANDI-MUDHOL ROAD, MUDHOL, MUDHOL, MUDHOL, BAGALKOT, Karnataka-587313	S Y NO 166, KULALI CROSS, JAMKHANDI-MUDHOL ROAD, MUDHOL, MUDHOL, MUDHOL, BAGALKOT, Karnataka-587313
Location	0, VISHAL NAGAR, HIPPARAGI ALBAL ROAD, hipparagi,, BAGALKOT, Karnataka-587311	0, VISHAL NAGAR, HIPPARAGI ALBAL ROAD, hipparagi,, BAGALKOT, Karnataka-587311
Location	MUTTALAGERI, MUTTALAGERI, Pattadakal, BAGALKOT, Karnataka-587201	MUTTALAGERI, MUTTALAGERI, Pattadakal, BAGALKOT, Karnataka-587201
Location	342, khanapur, badami,, Kallapur SK,, BAGALKOT, Karnataka-587155	342, khanapur, badami,, Kallapur SK,, BAGALKOT, Karnataka-587155
Location	NEW SUGAR MILL, NEAR VILLAGE KERKALMATTI, BADAMI TALUK,, Kerur,, BAGALKOT, Karnataka-587206	NEW SUGAR MILL, NEAR VILLAGE KERKALMATTI, BADAMI TALUK,, Kerur,, BAGALKOT, Karnataka-587206

[illegible]

This may be kept attached with the original Acknowledgment no. 796/N/SIA/IMO/2022 dated 20/09/2022

This receipt of this letter may please be acknowledged

Note: This is computer generated document. Hence, no signature is required.

EXHIBIT NO.74

PRESS NOTE NO. 17(1997 SERIES)

FILLING OF INDUSTRIAL ENTREPRENEURS MEMORANDUM

Subject: Filling of Industrial Entrepreneurs memorandum - reg.

Under the present Industrial Policy, entrepreneurs are required to submit an industrial entrepreneurs memorandum (IEM) in the prescribed form with five spare copies along with a demand draft for Rs.1000/- to the secretariat for Industrial Assistance (SIA) in the Department of Industrial Policy and promotion, Ministry of Industry. On filing the memorandum, entrepreneurs are given an acknowledgment by the entrepreneurial Assistance Unit (EAU) of the SIA, Ministry of industry. Requirement of entrepreneurs having to file a memorandum is intended mainly to conduct a limited post-facto check to see whether the proposed manufacturing activity requires an industrial license or not.

2. Acknowledgment of the IEM which is given on the spot on prima facie evidence of not attracting the provision of licensing, cannot, therefore, be construed as a clearance or approval to carry on an industrial activity contemplated in the IEM unless the provisions of statutes/regulations/notifications etc.

issued by the central or state Government from time to time on any specific directions or stay orders. Issues by the court/competent authority relevant to such an activity, are also fully complied with, or in no way contravened, as the case may be.

3. It is, therefore, clarity that it is the responsibility of the entrepreneurs to ensure that the manufacturing activity, as specified in the IEMs, does not come into conflict with other legal provision or directions or standing orders. In case of doubts, the entrepreneurs may avail of the assistance of the secretariat for industrial Assistance to seek clarifications on whether the industrial activity contemplated in the IEM for which an acknowledgment was issued by the SIA would be repugnant to any statutes/regulations/notifications etc. issued by the central government or on the details of other legal provisions or directions they have to additionally comply with before such an activity is taken.

4. All concerned are requested to note these clarifications for compliance.

F.No.10(43)/97-IP

Forwarded to Press Information Bureau for wide publicity to the contents of the above Press Note.

Press-information Officer

Press information Bureau

New Delhi

New Delhi, the 28th November, 1997

1997

Sd/-

(Ashok Kumar)

Joint Secretary to the Govt. of India

Appendix – I (Contd.)

Copies of Approvals

4. *Storage Tank & Receiver Tank License*

Kil Ack. No/ಕೆ2 ಸಂಖ್ಯೆ : CR1124147500196048

ಪಣಿ ರಸೀದಿ ನಂ/Receipt No 2401710238

ದಿನಾಂಕ/ Date : 21-12-2024

ಕಾನೂನು ಮಾಪನಶಾಸ್ತ್ರ ಅಧಿಕಾರಿ ಹೆಸರು

Name of Legal Metrology Officer

A S PANISHETTAR

ಗುರುತಿನ ಸಂಖ್ಯೆ

Identification No

KNT 138

ನಾನು ಈ ದಿನ TRUALT BIOENERGY LTD , UNIT 4 JALAGERI , BADAMI DIST, BAGALAKOT ಇವರಿಗೆ ಸಂಬಂಧಪಟ್ಟ ಈ ಕೆಳಗೆ

ನಮೂದಿಸಿರುವ ತೂಕ , ಅಳತೆ ಇತ್ಯಾದಿಗಳನ್ನು ಸತ್ಯಾಪನ ಮಾಡಿದ್ದೇನೆ ಮತ್ತು ಮೊಹರು ಮಾಡಿದ್ದೇನೆ.

I hereby certify that i have this day verified and stamped the under mentioned weights,measures,etc., belonging to

ಪರಿಮಾಣ Quantity	ತೂಕಗಳು , ಅಳತೆಗಳು , ತೂಕ ಮತ್ತು ಅಳತೆ ಸಾಧನಗಳು , ಅಳವಡ ಸಾಮರ್ಥ್ಯ ಮಾದರಿ /ವರ್ಗ , ತಯಾರಿಸಿದವರು ಹಾಗೂ ಇತರ ವಿವರಗಳು Weights,Measures,Weighing and Measuring Instruments,Capacity,Class,Manufacturer,Type etc	ಸತ್ಯಾಪನ ಶುಲ್ಕ Verification Fee Rs.	ಸಾರಿಗೆ ಮತ್ತು ಇತರ ವೆಚ್ಚಗಳು Carriage,Conveyance adjusting charges etc., In Rs.
4	Capacity Measures/VatsCapacity 326880 LTR RECTIFIED SPIRIT FEED TANK NO 1 / 1 - Alcoholic (Rs-5000) Capacity 335250 LTR ETHANOL DAILY RECEIVER TANK NO 1, 2 , 3 / 3 - Alcoholic (Rs-15000)	20000	2000
Grand Total		₹ 22000.00	

ದುರಸ್ತಿ ಮಾಡಿದವರ ಸಹಿ/Repaired By M.S Enterprises./2296

ಮುಂದಿನ ಸತ್ಯಾಪನ ದಿನಾಂಕ /Next Verification due on 20-12-2026

or date after repair , before being put into use, whichever is earlier.

ಸೂಚನೆ:-

- 1) In the case of rejected weights,measures,etc the Legal Metrology Officer shall give separate certificate of rejection mentioning the reasons of rejection against each item.
- 2) Please use LCR NO for further transactions.
- 3) As per rule 4(13) of above said rules this verification certificate should be exhibited at the trade premises in a conspicuous place.
- 4) This document is digitally signed, manual signature not required.

₹ ರೂ (ಅಕ್ಷರಗಳಲ್ಲಿ)

(in words) Rupees Twenty Two Thousand only



Assistant Controller of Legal Metrology , Bagalakote

Digitally signed By AMARESH PANISHETTAR, Date:
21/12/2024

IGN-Ack. No/2 ಸಂಖ್ಯೆ : CR1124147500196048

ಹಣ ರಸೀದಿ ನಂ/Receipt No 2401710237

ದಿನಾಂಕ/ Date : 21-12-2024

ಕಾನೂನು ಮಾವನಶಾಸ್ತ್ರ, ಅಧಿಕಾರಿ ಹೆಸರು

Name of Legal Metrology Officer

A S PANISHETTAR

ಗುರುತಿನ ಸಂಖ್ಯೆ

Identification No

KNT 138

ನಾನು ಈ ದಿನ TRUALT BIOENERGY LTD , UNIT 4 JALAGERI , BADAMI DIST, BAGALAKOT ಇವರಿಗೆ ಸಂಬಂಧಪಟ್ಟ ಈ ಕೆಳಗೆ

ನಮೂದಿಸಿರುವ ತೂಕ ,ಅಳತೆ ಇತ್ಯಾದಿಗಳನ್ನು ಸತ್ಯಾಪನೆ ಮಾಡಿದ್ದೇನೆ ಮತ್ತು ಮೊಹರು ಮಾಡಿದ್ದೇನೆ.

I hereby certify that i have this day verified and stamped the under mentioned weights,measures,etc., belonging to

ವಿವರಣೆ Quantity	ತೂಕಗಳು ,ಅಳತೆಗಳು ,ತೂಕ ಮತ್ತು ಅಳತೆ ಸಾಧನಗಳು , ಅವುಗಳ ಸಾಮರ್ಥ್ಯ ಮಾದರಿ /ವರ್ಗ , ತಯಾರಿಸಿದವರು ಹಾಗೂ ಇತರ ವಿವರಗಳು Weights,Measures,Weighing and Measuring Instruments,Capacity,Class,Manufacturer,Type etc	ಸತ್ಯಾಪನ ಶುಲ್ಕ Verification Fee Rs.	ಸಾರಿಗೆ ಮತ್ತು ಇತರ ವೆಚ್ಚಗಳು Carriage,Conveyance adjusting charges etc., in Rs.
7	11400 LTR - Product Alcoholic - Storage - Tank No. IMPURE SPIRIT NO 1 - Dia 220 cm / 1 (Rs-3540) 14700 LTR - Product :Alcoholic - Storage - Tank No :FUSAL OIL TANK 1 - Dia :250 cm / 1 (Rs-4530) 31814 LTR - Product :Alcoholic - Storage - Tank No :SYRUP DAY TANK NO 1 - Dia :300 cm / 1 (Rs-5000) 2286967 LTR - Product :ETHANOL - Storage - Tank No :1, 2,3 AND 4 - Dia :1500 cm / 4 (Rs-20000)	33070	2930
Grand Total ₹		36000.00	

ದುರಸ್ತಿ ಮಾಡಿದವರ ಸಹ/Repaired By M.S Enterprises/J2296

ಮುಂದಿನ ಸತ್ಯಾಪನ ದಿನಾಂಕ /Next Verification due on 20-12-2029

or date after repair , before being put into use, whichever is earlier.

ಸೂಚನೆ:- ತಿರಸ್ಕರಿಸಿದ ಬಗ್ಗೆ ಕಾರಣಗಳೊಂದಿಗೆ ಪ್ರತ್ಯೇಕ ತಿಳುವಳಿಕೆ ಪತ್ರ ನೀಡುವುದು

- Note:-
- 1) In the case of rejected weights,measures,etc the Legal Metrology Officer shall give separate certificate of rejection mentioning the reasons of rejection against each item.
 - 2) Please use LCR NO for further transactions.
 - 3) As per rule 4(13) of above said rules this verification certificate should be exhibited at the trade premises in a conspicuous place.
 - 4) This document is digitally signed, manual signature not required.

₹ ರೂ (ಅಕ್ಷರಗಳಲ್ಲಿ)

(in words) Rupees Thirty Six Thousand only



Assistant Controller of Legal Metrology , Bagalakote

Digitally signed By AMARESH PANISHETTAR, Date: 21/12/2024

Appendix – I (Contd.)

Copies of Approvals

5. *Consent to Operate from KSPCB*



Karnataka State Pollution Control Board
Parisara Bhavana, No.49, Church Street, Bengaluru-560001

Tele : 080-25589112/3,
25581383/388

Fax: 080-25586321

Email id: ho@kspcb.gov.in

Consent For Operation(CFO-Air,Water) - (CfO-Fresh)

**As per the provisions of
The Water (Prevention & Control of Pollution) Act, 1974
&
The Air (Prevention & Control of Pollution) Act, 1981**

To

Trualt Bioenergy Limited Unit IV, Jalageri village, Badami-Tq, Bagalkot-Dist

for the Facility located at,

**Trualt Bioenergy Limited Unit IV, SY. NO. 36/1, 36/2, 36/3, 36/4, 36/5, 37/2, 37/3,
37/4 & 37/5, Jalageri village, Badami-Tq, Bagalkot-Dist**

Bagalkot

Consent Order No	PCBID	INW ID	Industry Colour/Scale	Date of Issue
AW-346589	181935	283457	RED/LARGE	24/12/2024

**This Consent is granted for the Products/ Activity/Service name indicated
in the annexure along with the terms & conditions attached to this order**

Validity through: 24/12/2024 to 30/06/2029



ISO 9001:2015 & 14001:2015 Certified

Combined Consent Order No: AW-346589

PCB ID: 181935

GSC No : PBOXG0000273457

Date: 24/12/2024

Combined consent for discharge of effluents under the Water (Prevention and Control of Pollution) Act , 1974 and emission under the Air (Prevention and Control of Pollution)Act , 1981

Ref: 1. Application filed by the applicant/organization on 28/10/2024
2. Inspection of the on 28/10/2024
Industry/organization/by RO,
3. Proceedings of the ECM dated 02/12/2024 , held on 29/11/2024

Consent is hereby granted to the Occupier under Section 25(4) of the Water (Prevention & Control of Pollution) Act, 1974 (herein referred to as the Water Act) & Section 21 of Air (Prevention & Control of Pollution) Act, 1981, (herein referred to as the Air Act) and the Rules and Orders made there under and authorized the Occupier to operate /carryout industry/activity & to make discharge of the effluents & emissions confirming to the stipulated standards from the premises mentioned below and subject to the terms and conditions as detailed in the Schedule Annexed to this order.

Location:

Name of the Industry: Trualt Bioenergy Limited Unit IV

Address: SY. NO. 36/1, 36/2, 36/3, 36/4, 36/5, 37/2, 37/3, 37/4 & 37/5, Jalageri village, Badami-Tq, Bagalkot-Dist

Industrial Area: Not In I.A, Jalageri village,

Taluk: Badami, District: Bagalkot

CONDITIONS:**a) Discharge of effluents under the Water Act:**

Sr	Water Code	WC(KLD)	WWG(KLD)	Remark
1	Domestic Purpose	10.000	8.000	Refer additional conditions
2	Manufacturing Processes	689.000	1533.000	Lean effluents from the process. Refer additional conditions
3	Manufacturing Processes	0.000	981.000	Spent wash from process. Refer additional conditions

b) Discharge of Air emissions under the Air Act from the following stacks etc.

Sl. No.	Description of chimney/outlet	Limits specified refer schedule
The details of Sources, control equipments and its specification, type of fuel, constituents to be controlled in emissions etc. are detailed in Annexure-II.		

The consent for operation is granted considering the following activities/Products;

Sr	Product Name	Applied Qty	Unit
1	Distillery (sugarcane syrup based) to produce ethanol	300.0000	Kilo Litres/Day

Validity through : 24/12/202 to 30/06/2029
4

To,

Trualt Bioenergy Limited Unit IV

Jalageri village, Badami-Tq, Bagalkot-Dist

COPY TO:

The Environmental Officer, KSPCB, Regional Office Bagalkote for information and necessary action.

2. Master Register.
3. Case file.

Consent Fee paid : Rs. 2500000

SCHEDULE**TERMS AND CONDITIONS****A. TREATMENT AND DISPOSAL OF EFFLUENTS UNDER THE WATER ACT.**

1. The discharge from the premises of the occupier shall pass through the terminal manhole/manholes where from the Board shall be free to collect samples in accordance with the provisions of the Act/Rules made there under.
- 2(a). The sewage/domestic effluent shall be treated in septic tank and with soak pit. No overflow from the soak pit is allowed. The septic tank and soak pit shall be as per IS 2470 Part-I & Part-II.
- 2(b). The treated sewage effluent discharged shall conform to the standards specified in Annexure-I.
- 3(a). The trade effluent generated in the industry shall be treated in the ETP and treated effluent shall confirm to the standards stipulated by the Board in Annexure-I
- 3(b). The trade effluent shall be handed over to CETP and maintain logbook of effluent generated & sent every day.
4. The applicant shall install flow measuring/recording devices to record the discharge quantity and maintain the record.
5. The applicant shall not change or alter either the quality or the quantity or the place of discharge or temperature or the point of discharge without the previous consent/ permission of the Board.
6. The applicant shall not allow the discharge from the other premises to mix with the discharge from his premises. Storm water shall not be allowed to mix with the effluents on the upstream of the terminal manhole where the flow measuring devices are installed.
7. The daily quantity of domestic effluent and trade effluent from the industry shall not exceed the limits as indicated in this consent order:
8. The applicant shall discharge the effluents only to the place mentioned in the Consent order and discharge of treated/untreated outside the premises is not permitted.

B. EMISSIONS:

1. The discharge of emissions from the premises of the applicant shall pass through the air pollution control equipment and discharged through stacks/chimneys mentioned in **Annexure-II** where from the Board shall be free to collect the samples at any time in accordance with the provisions of the Act and Rules made there under. The tolerance limits of the constituents forming the emissions in each of the stacks shall not exceed the limits laid down in Annexure-II.
2. The applicant shall provide port holes for sampling of emission, access platforms for carrying out stack sampling, electrical points and all other necessary arrangements including ladder as indicated in Annexure-II.
3. The applicant shall upgrade/modify/replace the control equipment with prior permission of the Board.

C. MONITORING & REPORTING:

1. The applicant shall get the samples of effluents & emissions collected and get them analyzed once a month/either by in house monitoring laboratory or through EP approved laboratories for the parameters as Indicated in Annexure I & II.
2. The applicant shall maintain log books to reflect the working condition of pollution control systems and also self monitoring results and keep it open for inspection.

D. SOLID WASTE (OTHER THAN HAZARDOUS WASTE) DISPOSAL:

1. The applicant shall segregate solid waste from Hazardous Waste, Municipal Solid Waste and store it properly till treatment/disposal without causing pollution to the surrounding Environment.
2. The solid waste generated shall be handled & disposed by scientific method without causing eye sore to the general public and to the surrounding environment.

E. NOISE POLLUTION CONTROL:

The applicant shall ensure that the ambient noise levels within its premises during construction and during operational period shall not exceed w.r.t Area/Zone as per Noise Pollution (Regulation and Control) Rules, 2000 as mentioned below:-

- a) In Industrial Area 75 dB(A) Leq during day time and 70 dB(A) Leq during night time.
- b) In Commercial Area 65 dB(A) Leq during day time and 55 dB(A) Leq during night time.
- c) In Residential Area 55 dB(A) Leq during day time and 45 dB(A) Leq during night time.
- d) In Silence Zone 50 dB(A) Leq during day time and 40 dB(A) Leq during night time.

Note: - * Day time shall mean 6 am to 10 pm and Night time shall mean 10 pm to 6 am.

- * dB(A) Leq denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.
- * A “decibel” is a unit in which noise is measured.
- * “A”, in dB(A) Leq, denotes the frequency weighting in the measurement of noise and corresponds to frequency response characteristics of the human ear.
- * Leq: It is an energy mean of the noise level over a specified period.

F. HAZARDOUS AND OTHER WASTES (MANAGEMENT & TRANSBOUNDARY MOVEMENT) Rules 2016:

The applicant shall comply with the provisions of the Hazardous and other Wastes (Management & Transboundary Movement) Rules 2016.

G. GENERAL CONDITIONS:

1. The applicant shall obtain prior permission from the competent authority for drawing of water from Surface/Ground water source and submit a copy of the same to the Board.
2. The applicant shall not allow the discharge from the other premises to mix with the discharge from his premises.
3. The applicant shall promptly comply with all orders and instructions issued by the Board from time to time or any other officers of the Board duly authorized in this behalf.
4. The applicant shall set-up Environmental Cell comprising of qualified and competent personnel for complying with the conditions specified.
5. The Board reserves the right to review, impose additional conditions, revoke, change or alter terms and conditions of this consent.
6. The applicant shall forthwith keep the Board informed of any accidental discharge of emissions/effluents into the atmosphere in excess of the standards laid down by the Board. The applicant shall also take corrective steps to mitigate the impact.
7. The applicant shall provide alternate power supply sufficient to operate all Pollution control equipments.

8. The entire premises shall always be kept clean. The effluent holding area, inspection chambers, outlets, flow points should be made easily approachable.
9. The applicant shall display the consent granted in a prominent place for perusal of the inspecting officers of the Board.
10. The applicant his heirs, legal representatives or assignee shall have no claims whatsoever to the continuation or renewal of this consent after expiry of the validity of consent.
11. The applicant shall make an application for consent for subsequent period at least 120 days before expiry of this consent.
12. The applicant shall develop and maintain adequate green belt all around the periphery.
13. The applicant shall provide rain water harvesting system and shall provide proper storm water management system.
14. This consent is issued without prejudice to any Court Cases pending in any Hon'ble Court
15. The applicant shall furnish the Environmental statement for every financial year ending with 31st March in Form-V as per Environment (Protection) Rules, 1986. The statement shall be furnished before the end of September.
16. The applicant shall display flow diagram of the pollution control system near the pollution control system/s

NOTE:

The Conditions Nil mentioned in the schedule are not applicable.

Additional Conditions:

1. The occupier shall comply with all the Additional Conditions and Standards stipulated in Annexure 1, A & B attached with this consent order.
2. This consent order contains 14 pages including Additional Conditions and Annexures.
3. The products with quantities, water consumption, wastewater generation, mode of disposal with standards, air pollution sources with control measures mentioned in Additional Conditions attached with this order shall be considered and to be complied by the industry.
4. This CFO is issued for operating the Cane syrup based distillery unit of capacity 300 KLPD to produce Ethanol.
5. The applicant shall comply with the terms and conditions of the Environment Clearance issued by MoEF&CC, New Delhi vide letter No. IA- -11011/304/2023-IA-II (I), dated: 01.08.2024.
6. The applicant shall strictly adhere to the time bound commitments as below made vide their Undertaking letter dated 5.12.2024 and the compliance shall be reported to the Board.
 - a. Installation of Sewage Treatment Plant – On or before 6.3.2025.
 - b. Installation of CO2 Plant – On or before 31.03.2025.
 - c. Installation of OCEMS to the Boiler chimney – Before commissioning

Chimney No.	Chimney attached to	Capacity/KVA Rating	Minimum chimney height to be provided above ground level (in Mts)	Constituents to be controlled in the emission	Tolerance limits mg/NM3	Fuel	Air pollution Control equipment to be installed, in addition to chimney height as per col.(4)	Date of which air pollution control equipments shall be provided to achieve the stipulated tolerance limits and chimney heights conforming to stipulated heights.
1	Boiler	Incineration Boiler - 16 TPH	70	PM,SO ₂ ,NO _x ,CO, NMHC	30,-,-,-	BAG	ESP,PRT	At all times

Note:

ESP,PRT : E.S.P

Note:

- The DG set shall be provided with acoustic measures as per SI.No.94 in Schedule-I of Environment (Protection) Rules.
- There shall be no smell or odour nuisance from the industry.

LOCATION OF SAMPLING PORTHOLES, PLATFORMS, ELECTRICAL OUTLET.

- Location of Portholes and approach platform:

Portholes shall be provided for all chimneys, stacks and other sources of emission. These shall serve as the sampling points. The sampling point should be located at a distance equal to atleast eight times the stack or duct diameters downstream and two diameters upstream from source of low disturbance such as a Bend, Expansion, Construction Valve, Fitting or Visible Flame for rectangular stacks, the equivalent diameter can be calculated from the following equation.

$$\text{Equivalent Diameter} = \frac{2 (\text{Length} \times \text{Width})}{(\text{Length} + \text{Width})}$$

- The diameter of the sampling port should not be less than 100 mm dia". Arrangements should be made so that the porthole is closed firmly during the non sampling period
- An easily accessible platform to accommodate 3 to 4 persons to conveniently monitor the stack emission from the portholes shall be provided. Arrangements for an Electric Outlet Point of 230 V 15 A with suitable switch control and 3 Pin Point shall be provided at the Porthole location.
- The ladder shall be provided with adequate safety features so as to approach the monitoring location with ease.

Signature Not Verified

Digitally signed by _____
Date: 2024.12.24 10:41:02
Karnataka State Pollution Control Board

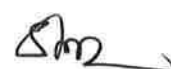
ANNEXURE -1
[PCB ID: 181935]

ADDITIONAL CONDITIONS TO ACCOMPANY CONSENT FOR OPERATION (CFO) ISSUED TO M/S. TRUALT BIOENERGY LTD., UNIT-IV, SY. NO. 36/1, 36/2, 36/3, 36/4, 36/5, 37/2, 37/3, 37/4 & 37/5, JALAGERI VILLAGE, BADAMI TALUK, BAGALKOTE DISTRICT.

A	GENERAL
1	This Consent for Operation (CFO) order is valid for the period upto 30.06.2029 from date of issue.
2	This CFO Order is issued from water and air pollution point of view under Section 25 of Water (Prevention & Control of Pollution) Act 1974 and Section 21 of Air (Prevention & Control of Pollution) Act 1981.
3	This CFO is issued for operating the Cane syrup based distillery unit of capacity 300 KLPD to produce Ethanol.
4	The applicant shall comply with the terms and conditions of the Environment Clearance issued by MoEF&CC, New Delhi vide letter No. IA-J-11011/304/2023-IA-II (I), dated: 01.08.2024.
5	The applicant shall strictly adhere to the time bound commitments as below made vide their Undertaking letter dated 5.12.2024 and the compliance shall be reported to the Board. a. Installation of Sewage Treatment Plant - On or before 6.3.2025. b. Installation of CO ₂ Plant - On or before 31.03.2025. c. Installation of OCEMS to the Boiler chimney - Before commissioning
6	The project authorities shall obtain all other statutory permissions under all such Acts whichever is applicable. This consent will not prevent operation of other laws in force. Failing to comply with any such provision will attract penal action under such Acts. The project authorities shall be solely responsible for such violations. This consent should not be used to circumvent any other statutory provisions.
B	WATER POLLUTION CONTROL
1	The source of water is Ghataprabha River. The industry shall obtain permission from KNNL/ WRD, GoK for drawing River water. The fresh water consumption shall not exceed 699 KLD for 300 KLPD syrup based distillery Plant.
2	The industry shall provide flow meter for recording the daily fresh water consumption.



3	The details of wastewater generation for 300 KLPD syrup based distillery Plant and mode of treatment shall be as follows:																						
	<table><tr><th>Wastewater stream</th><th>Quantity in KLD</th><th>Mode of treatment and disposal</th></tr><tr><td>Domestic</td><td>8</td><td rowspan="7">The applicant shall install Sewage Treatment Plant (STP) within 06.03.2025 as per the undertaking and the treated sewage shall be used for gardening within the premises. The treated sewage shall conform to the standards stipulated in Annexure- A before discharge. Till such time, the sewage shall be disposed to septic tank and soak pits designed as per IS 2470:1985, Part - 1 & 2. There shall not be any overflow from the septic tank /soak pits.</td></tr><tr><td>Laboratory</td><td>5</td></tr><tr><td>Scrubber effluent</td><td>88</td></tr><tr><td>CT blow down</td><td>80</td></tr><tr><td>Spent Lees</td><td>261</td></tr><tr><td>MEE Condensate</td><td>1069</td></tr><tr><td>Boiler Blowdown</td><td>30</td></tr><tr><td>Spent wash</td><td>981</td><td>The spent wash shall be concentrated in the MEE and the conc. Spent wash of 131 KLD shall be burnt in the incineration boiler of 16 TPH capacity to achieve ZLD.</td></tr></table>	Wastewater stream	Quantity in KLD	Mode of treatment and disposal	Domestic	8	The applicant shall install Sewage Treatment Plant (STP) within 06.03.2025 as per the undertaking and the treated sewage shall be used for gardening within the premises. The treated sewage shall conform to the standards stipulated in Annexure- A before discharge. Till such time, the sewage shall be disposed to septic tank and soak pits designed as per IS 2470:1985, Part - 1 & 2. There shall not be any overflow from the septic tank /soak pits.	Laboratory	5	Scrubber effluent	88	CT blow down	80	Spent Lees	261	MEE Condensate	1069	Boiler Blowdown	30	Spent wash	981	The spent wash shall be concentrated in the MEE and the conc. Spent wash of 131 KLD shall be burnt in the incineration boiler of 16 TPH capacity to achieve ZLD.	
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4	The industry shall adopt Zero Liquid Discharge (ZLD) system for managing the effluent from the distillery unit irrespective of the raw material used.																						
5	The applicant shall maintain adequate freeboard in the STP/CPU units to avoid any overflow at any point of time.																						
6	The applicant is liable to upgrade / modify the treatment system, if it fails to treat the effluent to the standards stipulated by the Board.																						
7	The industry shall not discharge any treated/ untreated trade effluent on-land or into nalas/ drains / water bodies at any point of time.																						
C	SPENT WASH MANAGEMENT																						
1	The industry shall provide impervious/lined tanks constructed above ground level for storing the Raw Spent Wash / Concentrated Spent Wash in case of emergency.																						
2	There shall not be any leakages, stagnation of Spent Wash																						
3	The applicant shall ensure that no spent wash /effluent is by passed on land or into water body (stream, lake, nala etc) so as to avoid surface or subsurface water pollution.																						
4	The applicant shall record the quantity of spent wash and other effluents generated and maintain a record. The recorded data shall be submitted to the jurisdictional Regional Officer on monthly basis.																						
5	The applicant shall synchronize the generation of spent wash, evaporation activity and incineration.																						
6	The applicant shall take all necessary measures to avoid odour nuisance both from the process and from the effluent handling.																						
7	The industry shall provide piezometer wells around Spent Wash storage tanks and monitor the ground water as per the MoEF & CC Notification No. S.O.2151, dated 17.6.2005 every month.																						



D	MOLASSES MANAGEMENT		
1	There shall not be any leakages, stagnation of Molasses.		
2	The applicant shall ensure that no Molasses/effluent is by passed on land or into water body (stream, lake, nala etc) so as to avoid surface or subsurface water pollution.		
3	The applicant shall store the molasses in covered steel tanks only with proper safety measures. Dyke walls of sufficient height shall be provided around the molasses storage tanks.		
4	The applicant shall obtain permission from the Board to dispose-off any spoiled molasses and shall be disposed-off in the manner as specified by the Board.		
5	The applicant shall conduct leak proof test for Molasses storage Tank once in a year and submit report to the Board.		
E	AIR POLLUTION CONTROL		
1	The discharge of emissions from the premises of the applicant shall pass through the air pollution control equipment and discharged through stacks/chimneys mentioned in Annexure-B where from the Board shall be free to collect the samples at any time in accordance with the provisions of the Act and Rules made there under.		
2	If there is going to be any new air pollution sources in future, the project authorities shall apply and obtain consent for establishment for the same from the Board.		
3	Stipulated chimney height and air pollution control devices shall be installed to all the sources to meet the desired emission standards before commissioning of the industry.		
E	SOLID WASTE MANAGEMENT		
1	The details of solid wastes generated and mode of disposal shall be as follows.		
	Sl. No.	Waste category	Quantity in TPD
	1	Incineration Boiler Ash	16
	2	CPU Sludge	0.4
	3	STP sludge	0.01
	Mode of disposal Shall be utilized as manure within the premises or disposed to farmers for using as manure.		
2	The applicant shall provide closed shed / silos for storage of solid wastes to prevent fugitive emissions.		
3	The applicant shall provide all-round wind breaking walls around the bagasse yard and conveyor system for feeding of bagasse to the boiler.		
4	The applicant shall provide all-round garland drain around the bagasse yard with collection and pumping arrangement to CPU for leachate generation if any during rainy season.		
F	HAZARDOUS WASTES (MANAGEMENT, HANDLING & TRANSBOUNDARY MOVEMENT) RULES 2016:		
1	The industry shall obtain authorization under Hazardous Wastes (Management, Handling & Transboundary Movement) Rules 2016 and shall comply with the provisions of the said rules.		
2	The applicant shall provide closed shed for storage of hazardous and other wastes.		

G	SELF MONITORING AND REPORTING
1	The applicant shall carryout environmental monitoring during construction phase in the frequency as given below. a) Ambient Air Quality – As per NAAQ Standards b) Ambient Noise Monitoring– Once in a month c) Stack monitoring – Once in a month d) Treated sewage from STP- Once in 3 months. e) Ground water quality in and around the project site – once in 3 months
2	The industry shall ensure continuous operation and connectivity of Online Continuous Emission Monitoring System (OCEMS) for boiler stack for Particulate Matter & Flow parameter and shall be connected to CPCB and SPCB server as per CPCB directions. The specification/ sensor used in online continuous monitoring system shall be in accordance with CPCB specification. The applicant shall calibrate these systems from time to time according to equipment supplier specification through labs recognized under the Environment (Protection) Act, 1986 or NABL accredited laboratories.
3	Online flow meters with data recording facility which should be transmitted online to CPCB and SPCB shall be installed at the raw spent wash generation line and the concentrated spent wash line connecting to the final storage lagoon/tank before incineration. For distillery plants having advanced integrated multiple effect evaporators where concentrated spent wash is being directly generated, new meters with similar specification shall be installed with data connectivity to CPCB and SPCB at the concentrated spent wash line connecting to the final storage lagoon/tank before incineration and at the alcohol production line for assessment of concentrated spent wash generation ratio.
4	The cameras should be IP camera with PAN, TILT Zoom, 5x or above focal length with night vision capability and should be installed at relevant locations of incineration area and final spent wash storage lagoon/Conc. Spent Wash storage tank, as applicable. The camera feed should be integrated with all camera controls (pan, zoom, tilt) and shown on central platform, where data on other parameters (effluent monitoring/flow-meters/emission monitoring) is displayed/submitted. The camera feed shall be provided without pre-requirement of any plug-in software for data display or data submission and shall be available in the Google chrome browser.
5	The industry shall carry out the analysis of various prescribed effluent/soil/ground water quality parameters from the MoEF & CC recognised/accredited laboratories.
H	GENERAL CONDITIONS:
1	The applicant shall not allow the discharge from the other premises to mix with the discharge from his premises. The storm water shall not be allowed to mix with the effluents
2	The noise levels measured at the boundary of the industry shall not exceed the prescribed limits of 75 dB (A) leq. during day time and 70 dB (A) leq during night time respectively.
3	The applicant shall carryout intensive plantation / green belt development as per the EC conditions.
4	The applicant implement solar power harvesting in parking area, on buildings and open areas to meet 10 % of the total power requirement through solar

	power.
5	The applicant shall implement scientific storm water management plan for the complete industrial premises. The industry shall harvest rain water from the roof top of the buildings and storm water drains to recharge the ground water and reuse the same for process/utilities / green belt development so as to conserve fresh water. The applicant shall construct a storage pond of 60 days capacity for collection and use of rainwater.
6	The industry shall comply with Plastic Waste Management Rules, 2016 (with up to date amendments), E- Waste Management Rules, 2016 (with up to date amendments), Bio-medical Waste Management Rules, 2016 (with up to date amendments) and Battery Waste Management Rules, 2022.
7	The industry shall submit half yearly compliance report to the Board on or before 30 th October for the period April- September and 30 th April for the period October - March.
8	The industry shall metal all the internal roads to avoid dust emissions.
9	The applicant shall obtain insurance under Public Liability Insurance Act 1991 and also pay equivalent premium to the Environment Relief Fund (ERF) as per the said Act and submit copy of the policy to the Board.
10	The industry shall carry out awareness activities on environmental Protection among employees and community.
11	Non-compliances to the conditions stipulated, Board has the right to withdraw the consent.
12	The applicant shall submit compliance report to the conditions stipulated in this consent order within 30 days.
13	The applicant shall apply for renewal of consent at-least 120 days in advance of expiry of the consent.


SENIOR ENVIRONMENTAL OFFICER
17 CATEGORY & E-GOV CELL


ANNEXURE-A

DISCHARGE STANDARDS FOR SEWAGE TREATMENT PLANT

Sl. No.	Characteristics	Standards
1	pH	6.5 to 8.5
2	BOD, mg/l (3 days at 27° C)	< 10
3	TSS, mg/l	< 10
4	COD, mg/l	< 50
5	Ammonical Nitrogen, mg/l	< 5
6	Total Nitrogen, mg/l	< 10
7	Faecal coliform, MPN	<100/100 ml



**SENIOR ENVIRONMENTAL OFFICER
17 CATEGORY & E-GOV CELL**

23/12

ANNEXURE -B

DETAILS OF AIR POLLUTION SOURCES AND APC MEASURES TO BE PROVIDED

Chimney No.	Chimney attached to	Minimum chimney height to be provided	Constituent to be controlled in the emission	Tolerance limits mg/Nm ³	Air pollution control equipment to be installed
1	Incineration Boiler- 16 TPH (Bagasse + Con. Spent wash)	70 m AGL	PM	30	3 fields Electrostatic Precipitator

Note:

1. Air Pollution Control measures as above shall be provided and operated at all times.
2. AGL – Above Ground Level, PM- Particulate Matter.


SENIOR ENVIRONMENTAL OFFICER
17 CATEGORY & E-GOV CELL
23/12

Copy to:

1. RSEO Dharwad for information.
2. RO Bagalkot for information & to inspect the industry as per inspection schedule and report the compliance.

Appendix – I (Contd.)

Copies of Approvals

6. *Fire Fighting Compliance Certificate*

No:594/CFO/HBL/FSR/Storage/2024

To,
The District Magistrate,
Bagalkot District

Sir,

Sub : Issue of Fire Safety Recommendation Certificate for the storage of 15318 KL of Ethanol in 09 nos. of tanks at Trualt Bioenergy Limited, Unit-4, Sy.No.36/4 & 36/5, Jalageri Village, Badami Taluk, Bagalkot District.

Ref : 1) No.Ethanol/CR- /2024-25/4953/2 dated 12/11/2024
2) C.No.24/RFO/HR/2024 dated 04/01/2025

Please refer to your letter cited above ref:1 The Regional Fire Officer Hubballi has inspected the site Trualt Bioenergy Limited, Unit-4, Sy.No.36/4 & 36/5, Jalageri Village, Badami Taluk, Bagalkot District from the fire prevention fire fighting and evacuation point of view on 26/11/2024 and submitted his inspection report vide ref:2 Wherein 15318 KL of Ethanol is proposed to be stored in 09 nos. of tanks above the ground level. The following are the particulars:

A. Details of Storage premises

- | | | | |
|---|-------------------------------|---|---|
| 1 | Proposed storage and capacity | : | 15318 KL of Ethanol in 09 nos. of tank |
| 2 | Type of Storage | : | Above the ground level |
| 3 | Size of room/Magazine | : | Not applicable |
| 4 | Area Utilized | : | 10162.13 Cu. M. |
| 3 | Address of the premises | : | Trualt Bioenergy Limited,
Unit-4, Sy.No.36/4 & 36/5,
Jalageri Village, Badami Taluk,
Bagalkot District |



- 4 Surrounding of the premises
 East : 10.00 mtrs. wide Factory Road
 West : Agricultural Land
 North : Factory Open Land
 South : Future Distillery Section
- 5 Accessibility : The premises is accessible from Eastern side.
- 6 Name & Address of the applicant : The Authorized Signatory,
 Trualt Bioenergy Limited,
 Unit-4, Sy.No.36/4 & 36/5,
 Jalageri Village, Badami Taluk,
 Bagalkot District

B. On inspection of the site and examination of the plan, the following fire prevention, fire fighting and evacuation measures are recommended and they are absolutely essential :

S.L No	Details (1)	Existing (2)	Recommendations (3)
1	Open space around the storage tanks.	Tank-1704 A Eastern side 04.00 mtrs Western side 06.75 mtrs Northern side 08.00mtrs Southern side 12.50mtrs Tank-1704 B Eastern side 04.00 mtrs Western side 06.75 mtrs Northern side 06.75 mtrs Southern side 08.00mtrs Tank-1704 C Eastern side 06.75 mtrs Western side 04.00 mtrs Northern side 08.00mtrs Southern side 12.50mtrs Tank-1704 D Eastern side 06.75 mtrs Western side 04.00 mtrs Northern side 06.75 mtrs Southern side 08.00mtrs Tank-1704 E Eastern side 08.00 mtrs Western side 06.75 mtrs Northern side 09.25 mtrs Southern side 06.75 mtrs	Requirement is complied with. The open space allowed all around should be maintained free without any further construction.



Tank-1704 F

Eastern side 06.75 mtrs
 Western side 08.00 mtrs
 Northern side 09.25 mtrs
 Southern side 06.75 mtrs

Tank-1701 A

Eastern side 03.02 mtrs
 Western side 04.50 mtrs
 Northern side 04.50 mtrs
 Southern side 03.45 mtrs

Tank-1701 B

Eastern side 03.02 mtrs
 Western side 04.50 mtrs
 Northern side 03.45 mtrs
 Southern side 03.45 mtrs

Tank-1701 C

Eastern side 03.02 mtrs
 Western side 04.50 mtrs
 Northern side 03.45 mtrs
 Southern side 04.50 mtrs

- 2 Premises Segregation

Premises is segregated by erecting 02.00 mtrs. dyke wall above that 01.00 mtr. high chain link fencing.

Requirement is complied with.

- 3 Fire ring main hydrant system

Recommended to provide ring main yard hydrant system of GI 'C' class pipe of minimum 150 mm dia. along with double headed hydrant outlets for every 40 mtrs. with Hose box containing 2 nos. of RRL of 15 mt length and branch pipe.

- 4 Set of Pump

Recommended to provide a set of pump consisting 1 Electrical driven pump of 2850 lpm capacity, 1 diesel driven pump of 2850 lpm capacity and 1 jockey pump of 180 lpm capacity in the pump room.



5 Water tank storage for the hydrant system. Provided UG tank of 1200000 ltrs. capacity.

Adequate

6 Fire Prevention Measures.

1. Items falling under purview of Indian Explosive Rules, 1940 shall be stored in accordance with the conditions prescribed therein.
2. License for possessing use and storing the above items shall be obtained from the appropriate authority as specified in the Indian Explosive Rules 1940.
3. No such articles shall be kept or permitted to be kept outside the premises licensed for.
4. No portion of the storage premises shall be used for dwelling or cooking purposes.
5. No naked lights or articles that cause fire or spark shall be allowed in the storage premises.
6. Nothing shall be done or permitted to be done in the premises that may cause fire or otherwise endanger the public safety.
7. No gas cylinders filled with compressed or liquefied gases shall be stored in the premises.
8. The above items shall not be stored along with other inflammable or combustible substances oxidizing agents or acids. Neither they shall be stored nearby the storage.
9. The premises shall be kept clean and free from inflammable materials, waste, vegetation etc.
10. Dragging or package or bags in the premises shall be prevented.



11. While loading and unloading the engine of the vehicles shall be switched off.
12. Unauthorized persons shall not be allowed to handle the Explosives.
13. Free access to the licensed premises shall be given at all reasonable times to any Fire Officer authorised to ascertain that the conditions of this No objection Certificate are complied with.
14. Security staff shall be employed round the clock to ensure strict compliance to the conditions laid down in this No objection Certificate.
15. COPTA Sec-4 direction No Smoking area smoking here is an offence board should be written in English & Kannada both language shall be prominently displayed at inside the entry/exit of the each floor.

7 Fire Fighting

Recommended to provide -

- (1) minimum 06 nos. of ABC Fire Extinguishers each of 10 kg capacity,
- (2) 04 nos. of Trolley type Foam fire extinguishers each of 50 ltrs. capacity
- (3) 12 nos. of fire buckets each of 9 ltrs. capacity filled with clean dry sand.
- (4) **High velocity sprinkler system to be installed all around the tank. Water sprinkler shall be installed in the loading plant. Ethanol leakage dry pit to be created.**
- (5) 02 nos. of water monitors,
- (6) 12 nos. of yard hydrant around Ethanol storage tank,
- (7) Spark & Leak arrestor and for each storage tanks Foam pourer system shall be installed.



8 Training

Recommended to provide Basic fire fighting training to 40% of employees at R.A.Mundkur Karnataka State Fire & Emergency Services Academy, Bannerghatta Road, Bangalore within the period of 03 months.

9 Fire Order

A notice board in bold letters indicating the action to be taken by the employees in an emergency has been provided. In the notice board the telephone number of Badami Fire Station i.e., 08357-221101 & 101 has been displayed.

The Karnataka Fire & Emergency Services Department has No objection for issue of Fire Safety Recommendation Certificate for the storage of 15318 KL of Ethanol in 09 nos. of tanks above the ground level at Trualt Bioenergy Limited, Unit-4, Sy.No.36/4 & 36/5, Jalageri Village, Badami Taluk, Bagalkot District subject to strict adherence to the conditions as laid down in this Fire Safety Recommendation Certificate. *After full-filling the above recommendations, a Certificate should be obtained by this office.* If at any time any of the conditions are found not complied with and any building or permanent establishments etc, come up near the storage site in due course of time against the rules, this Certificate shall stand withdrawn/cancelled. This Certificate is valid for a period of only one year from the date of issue and is renewable.



Yours faithfully,

CHIEF FIRE OFFICER
Karnataka State Fire and
Emergency Services, Hubballi Zone
HUBBALLI-25.

Copy to :

1. The DGP&DG, KSF& ES, Bengaluru for your kind information sir.
2. The Regional Fire Officer Hubballi Range.
3. The Fire Station Officer, Badami Fire Station.

Appendix – I (Contd.)

Copies of Approvals

7. *PESO License*

प्ररूप XV
(प्रथम अनुसूची का अनुच्छेद 6 देखिए)
FORM XV
(see Article 6 of the First Schedule)

अधिष्ठापनों में पेट्रोलियम के आयात और भंडारकरण के लिए अनुज्ञप्ति
LICENCE TO IMPORT AND STORE PETROLEUM IN AN INSTALLATION

अनुज्ञप्ति सं. (Licence No.) : **P/SC/KA/15/2974(P609553)**

फीस रूपए (Fee Rs.) **50000/-** per year

M/s. TRUALT BIOENERGY LIMITED, Shri Anand Kadam (Authorised Signatory), UNIT - 4, Jalageri , Badami, District: BAGALKOT, State: Karnataka, PIN: 587206 को केवल इसमें यथा विनिर्दिष्ट वर्ग और मात्राओं में पेट्रोलियम **14547.00 KL** आयात करने के लिए और उसका, नीचे वर्णित और अनुमोदित नक्शा संख्या **P/SC/KA/15/2974(P609553)** तारीख **20/01/2025** जो कि इससे उपाबद्ध हैं, में दिखाए गए स्थान पर भण्डारकरण के लिए पेट्रोलियम अधिनियम, 1934 के उपबंधों या उसके अधीन बनाए गए नियमों तथा इस अनुज्ञप्ति की अतिरिक्त शर्तों के अधीन रहते हुए, यह अनुज्ञप्ति अनुदत्त की जाती है।

Licence is hereby granted to **M/s. TRUALT BIOENERGY LIMITED, Shri Anand Kadam (Authorised Signatory), UNIT - 4, Jalageri , Badami, District: BAGALKOT, State: Karnataka, PIN: 587206** valid only for the importation and storage of **14547.00 KL** Petroleum of the class and quantities as herein specified and storage thereof in the place described below and shown on the approved plan No **P/SC/KA/15/2974(P609553)** dated **20/01/2025** attached hereto subject to the provisions of the Petroleum Act, 1934 and the rule made thereunder and to the further conditions of this Licence.

यह अनुज्ञप्ति 31st day of December **2027** तक प्रवृत्त रहेगी।
The Licence shall remain in force till the 31st day of December **2027**

पेट्रोलियम का विवरण /Description of Petroleum	अनुज्ञप्त मात्रा (किलोलीटरों में) /Quantity licenced in KL
वर्ग क प्रपुंज पेट्रोलियम /Petroleum Class A in bulk	14547.00 KL
वर्ग क प्रपुंज पेट्रोलियम से भिन्न /Petroleum Class A, otherwise than in bulk	NIL
वर्ग ख प्रपुंज पेट्रोलियम /Petroleum Class B in bulk	NIL
वर्ग ख प्रपुंज पेट्रोलियम से भिन्न /Petroleum Class B, otherwise than in bulk	NIL
वर्ग ग प्रपुंज पेट्रोलियम /Petroleum Class C in bulk	NIL
वर्ग ग प्रपुंज पेट्रोलियम से भिन्न /Petroleum Class C, otherwise than in bulk	NIL
कुल क्षमता /Total Capacity	14547.00 KL

January 20, 2025

Jt. Chief Controller of Explosives
SC, Chennai

अनुज्ञप्त परिसरों का विवरण और अवस्थान
DESCRIPTION AND LOCATION OF THE LICENSED PREMISES

अनुज्ञप्त परिसर जिसकी विन्यास सीमाएं अन्य विशिष्टायां संलग्न अनुमोदित नक्शों में दिखाई गई हैं **Survey No: 36*/4 & 36*/5, At Jalageri, Jalageri, Badami, Taluka: Badami, District: BAGALKOT, State: Karnataka, PIN: 587206** स्थान पर अवस्थित है तथा उसमें निम्नलिखित **9 Above Ground tank(s) for CLASS A** सम्मिलित हैं।

The licensed premises, the layout , boundaries and other particulars of which are shown in the attached approved plan are situated at **Survey No: 36*/4 & 36*/5, At Jalageri, Jalageri, Badami, Taluka: Badami, District: BAGALKOT, State: Karnataka, PIN: 587206** and consists of **9 Above Ground tank(s) for CLASS A** together with connected facilities.

Note:-This is system generated document does not require signature.



सत्यमेव जयते

भारत सरकार

Government of India

वाणिज्य और उद्योग मंत्रालय

Ministry of Commerce & Industry

पेट्रोलियम तथा विस्फोटक सुरक्षा संगठन (पेसो)

Petroleum & Explosives Safety Organisation (PESO)

A और D - विंग, ब्लॉक 1-8, दूसरा तल, शास्त्री भवन, 26 हड्डोउस रोड, नुंगम्बक्कम

चेन्नै- 600006

A & D - Wing, Block 1-8, IInd Floor, Shastri Bhavan,

26 Haddous Road, Nungambakkam,

Chennai - 600006

E-mail : jtccechennai@explosives.gov.in

Phone/Fax No : 044 - 28287118,28281023,28281041,28287119/28284848

संख्या /No. : P/SC/KA/15/2974 (P609553)

दिनांक /Dated : 20/01/2025

सेवा में /To,

M/s. TRUALT BIOENERGY LIMITED,
Shri Anand Kadam (Authorised Signatory),
UNIT - 4,
Jalageri ,
Badami,
District: BAGALKOT,
State: Karnataka
PIN: 587206

विषय /Sub : Survey No, 36*4 & 36*5, At Jalageri, Jalageri, Badami, Taluka: Badami, District: BAGALKOT, State: Karnataka, PIN: 587206 में पेट्रोलियम वर्ग A का अधिष्ठापन -अनुज्ञापित जारी करने के बारे में ।
Petroleum Class A Installation at Survey No, 36*4 & 36*5, At Jalageri, Jalageri, Badami, Taluka: Badami, District: BAGALKOT, State: Karnataka, PIN: 587206 Grant of License regarding.

महोदय
/Sir(s),

कृपया आपके पत्र क्रमांक OIN1902141 दिनांक 17/01/2025 का अवलोकन करें ।

Please refer to your letter No. OIN1902141 dated 17/01/2025

विषयान्तर्गत अधिष्ठापन में निम्नलिखित पेट्रोलियम पदार्थों के वर्ग तथा मात्रा के भंडारण के लिए पेट्रोलियम नियम, 2002 के अधीन प्ररूप - XV में स्वीकृत, दिनांक 31/12/2027 तक वैध अनुज्ञापित संख्या P/SC/KA/15/2974 (P609553) दिनांक 20/01/2025 भेजी जा रही है ।

Licence No. P/SC/KA/15/2974 (P609553) dated 20/01/2025 granted in Form XV under the Petroleum Rules, 2002 and valid till 31/12/2027 for the storage of the following kinds and quantities of Petroleum at the subject installation is forwarded herewith.

पेट्रोलियम का विवरण /Description of Petroleum	किलोलीटरों में अनुज्ञापित क्षमता /Quantity licenced in KL
वर्ग क प्रपुंज पेट्रोलियम /Petroleum Class A in bulk	14547.00 KL
वर्ग क प्रपुंज पेट्रोलियम से भिन्न /Petroleum Class A, otherwise than in bulk	NIL
वर्ग ख प्रपुंज पेट्रोलियम /Petroleum Class B in bulk	NIL
वर्ग ख प्रपुंज पेट्रोलियम से भिन्न /Petroleum Class B, otherwise than in bulk	NIL
वर्ग ग प्रपुंज पेट्रोलियम /Petroleum Class C in bulk	NIL
वर्ग ग प्रपुंज पेट्रोलियम से भिन्न /Petroleum Class C, otherwise than in bulk	NIL
कुल क्षमता /Total Capacity	14547.00 KL

कृपया पेट्रोलियम नियम 2002 के अधीन बनाए गए नियम 148 में दी गई प्रक्रिया का कड़ाई से पालन करें और अनुज्ञापित के नवीकरण हेतु समस्त दस्तावेजों को अनुज्ञापित की वैधता समाप्ति की तारीख या उससे पूर्व Dy. Chief Controller of Explosives, Mangalore को प्रेषित करें ।

Please follow the procedure strictly as laid down in rule 148 of the Petroleum Rules, 2002 and submit complete documents for the Renewal of the licence to Dy. Chief Controller of Explosives, Mangalore, so as to reach his office on or before the date on which Licence expires.

यह अनुमोदन/ अनुमति अन्य प्राधिकारियों से आवश्यक अनुमति/क्लीयरन्स प्राप्त करने से या यथा लागू अन्य विधियों से छूट नहीं देती है ।

This approval/permission, however, does not absolve from obtaining necessary permission/clearance from other authorities or under other statutes as applicable.

भवदीय /Yours faithfully,

((डा.आर.के.राठोर)
(Dr. R. K. Rathore))
संयुक्त मुख्या विस्फोटक नियंत्रक
Jt. Chief Controller of Explosives
चेन्नै/Chennai

Copy forwarded to :-

1. The District Magistrate, BAGALKOT(Karnataka) with reference to his NOC No P/KA/BKT/P609553/9(N7393) Dated 16/01/2025
2. The Dy. Chief Controller of Explosives, Mangalore. A Copy of the licence along with approved plan is enclosed.

Jt. Chief Controller of Explosives
Chennai

(अधिक जानकारी जैसे आवेदन की स्थिति, शुल्क तथा अन्य विवरण के लिए हमारी वेबसाइट <http://peso.gov.in> देखें)
(For more information regarding status, fees and other details please visit our website <http://peso.gov.in>)

Note:-This is system generated document does not require signature.

Appendix – I (Contd.)

Copies of Approvals

- 8. *State High Level Clearance Committee (SHLCC) Approval***



GOVERNMENT OF KARNATAKA

DIRECTORATE OF INDUSTRIES & COMMERCE

2nd FLOOR, KHANIJA BHAVAN (SOUTH WING)

NO. 49, RACE COURSE ROAD,

BANGALORE - 560 001. INDIA

TEL: 91-80-22386796

FAX: 91-80-22389909

APPLICATION FORM

FOR APPROVAL OF PROJECTS BY

STATE HIGH LEVEL CLEARANCE COMMITTEE/

STATE LEVEL SINGLE WINDOW CLEARANCE

COMMITTEE



KARNATAKA UDYOG MITRA

(A Government of Karnataka Organisation)

3rd Floor, Khanija Bhavan(East Wing),

No. 49, Race Course Road, BANGALORE - 560 001. India.

TEL: 91-80-22282392/22285659/22286632 Fax: 91-80-22266063

Email: md@kumbangalore.com

Company Details	
Name of the Company /Unit/Trust	TRUALT BIOENERGY LIMITED
Constitution of the Establishment	Private Sector Undertaking - Public Limited Company
Category of the Entrepreneur	General
Type of Proposal	Substantial Expansion
Correspondence Address	S 904, 9TH FLOOR, WORLD TRADE CENTRE MALLESHWARAM WEST, BANGALORE, BANGALORE URBAN, Karnataka, India
Pin Code	560055
Phone Number	23256500
Mobile	9980550200
Email ID	HO@NIRANIGROUPS.COM
Corporate Address	S 904, 9TH FLOOR, WORLD TRADE CENTRE MALLESHWARAM WEST, BANGALORE, BANGALORE URBAN, Karnataka, India
Pin Code	560055
Phone Number	23256500
Mobile	9980550200
Email ID	HO@NIRANIGROUPS.COM
Name of the Managing Director / CEO / Chief Promoter / Trustee / Managing Partner / Proprietor	Sangamesh Rudrappa Nirani , Vijay Murugesh Nirani , Vishal Murugesh Nirani
Name of the authorized coordinating person	Vijaykumar Nirani
CIN Number	U15400KA2021PLC145878
Is your proposed project Solar/ Wind Project	No
Do you have existing business	No
Products proposed to Manufacture / Activity	
Item Activity	Energy
Item Description	Ethanol/ENA/RS/IS/CorbonDioxide/Cogen Power

Item code	22071019
Proposed Annual capacity	828000
Unit Capacity	KLD
Do your manufacturing process have By-product/co-product :	No

Production Details (For five Years)

Year	Year 1	Year 2	Year 3	Year 4	Year 5
Quantity(KLD)	828000.00	828000.00	828000.00	828000.00	828000.00
Sales Value(in Crores)	5382	5382	5382	5382	5382

Environment Clearance From	Ministry of Environment, Forest and Climate Change
----------------------------	--

Category of industry (As per KSPCB guidelines)

Type of Activity for Proposed Industry	Distillery (molasses / grain / yeast based) &/or Composting of Press mud, Bio-fertilizer and organic Nutrients using Spent Wash
Pollution Category	Red
Distance of the project site from Sensitive Location (world heritage center/national monument/Protected Forest/ Sanctuaries Etc)	80
Distance of the project site from Water bodies	5
Distance of the project site from Nearest Habitation	3
Distance of the project site from Road(NH/SH/District Road ETC	4
Whether company Plans for zero discharge	No
Government Special Project	NA

Cost of the Project

Cost of the project	Rs. (In Crores)
Land	34.7
Building	227.5
Plant & Machinery	1261

Working Capital Margin	54.6
Contingency	78.28
Others	165.33
Total	1821.41

Means of Finance

Means of Finance	Rs. (In Crores)
Promoters Equity	182.14
Institutions Equity	0
Foreign Equity	0
Term Loans	1639.27
Subsidy/Grants	0
Others	0
Total	1821.41
Whether Foreign Technology Agreement is Envisaged ?	No
Term Loan	No
External Commercial Borrowing (ECB)/Foreign Direct Investment (FDI)	No
Production to be exported	No

Employment	Existing	Proposed
Top/Middle-Management	0	50
Supervisory	0	16
UnSkilled/SemiSkilled	0	1354
Skilled	0	300
Total	0	1720

Expected Employees Skill set

Expected Date of Commencement of Trial Production	01-Oct-2024
Expected Date of Commencement of Commercial Production	01-Nov-2024
Ancillary Potential	No

Land Requested for Approval and Land Utilization Details in Sq.Meters

Land required for the proposed project (SqMts)		1071471.28	
Building type	Land required(in SqMts)	Plinth Area (In SqMts)	Built- up Area(In SqMts)
1 acre = 4047 sqmts			
Factory/IT/BT Work space	546985.66	303992.89	303992.89
Office	4194.63	4194.63	4194.63
Generator Room	5354.93	5354.93	5354.93
Green Space	277788.85	0	0
Roads	150829.38	0	0
Others : Ware House	86317.83	0	0
FAR (Built up area / Total Land Area)		0.29	
Plot Coverage =(Plinth Area/ Land Required)		0.29	

Mode of Acquisition of proposed Land

District	Taluk	Village/Industrial Area	Land Owner	Consent Obtained	Survey no/Hissa No	Extent In Acres
Land Agency : Own Land						
Bagalkote - ಬಾಗಲಕೋಟೆ	ಮುಧೋಳ	ಮಾಲಾಪುರ	ನರಾಣಿಶುಗರ್‌ಸ್ ಲಿಮಿಟೆಡ್ ಮುಧೋಳ ಡೈರೆಕ್ಟರ್	Yes	18 / 2?	2.39.00.00
Name Of LPA : Mudhol Distance : 80	Land use as per LPA zoning Regulation : IndustrialZone		Surrounding land / building use : ResidentialZone,IndustrialZone,Agric ulturalZone		CRZ classification (buttons) : NA	

Power Requirement

Power required for the proposed project in KVA	51750
Do you have any plans of Captive Generation of power	No

Water Requirement

Source of Water	Quantity(In KLPD)
River	23000

Status of Clearance from Central/State Government

EOU Letter	LOI	FIPB	IEM_GOI	Mining Lease
No	No	No	No	No

Incentives and Assistance Details

Incentive Sought from Govt. of Karnataka

Incentive & Concessions Sought Over & above Policy(applicable for the Mega projects)

Incentive Sought	Incentive Concessions Policy
Karnataka Industrial Policy 2020-2025	1. Seeking capital subsidy of 7.5 percent of the fixed assets 2. Seeking 5 percent instead of 1.75 percent on investment promotion subsidy based on turnover from date of commencement of commercial production

Assistance Sought from Govt. of Karnataka

Assistance Name	Assistance Description
Others : Affidavit Based Clearance	We would seek support from GOK in timely approvals of License

Details of Promoters/Directors	
Name	Sangamesh Rudrappa Nirani
Designation	Director
Address	Vijay Vishal Palace, Jamakhandi Road, Mudhol Bagalkot 587313
Office Number	
Mobile Number	9845850850
E-mail	sangameshnirani@gmail.com
PAN	ADNPN6258R
Net worth	100
National Identity No/ Aadhar	991603659525

Details of Promoters/Directors	
Name	Vijay Murugesh Nirani
Designation	Director
Address	Nirani Sugars Limited, Mudhol, Bagalkot - 587313
Office Number	
Mobile Number	9449450000
E-mail	vijay.nirani@gmail.com
PAN	ARTPN6115H
Net worth	100
National Identity No/ Aadhar	910781238681

Details of Promoters/Directors	
Name	Vishal Murugesh Nirani
Designation	Director
Address	Vijay Nagar, Kulali Cross, Mudhol Ward No-5, Mudhol Bagalkot
Office Number	
Mobile Number	9482190000
E-mail	vishal_nirani@yahoo.com
PAN	BCPPN7648F
Net worth	100
National Identity No/ Aadhar	345453648712

Details of Authorized Person	
Name of the Company /Unit/Trust	TRUALT BIOENERGY LIMITED
Name of the Authorized person	Vijaykumar Nirani
Designation	Director
Address	Nirani Sugars Limited, Mudhol, Bagalkot - 587313
Mobile Number	9449450000
Email	md@niranigroups.com
PAN	ARTPN6115H
National Identity No/ Aadhaar	910781238681

Ammendments Sought**Extension of Time**

Month-Year	Apr-2027
Reason for Period Extension	we require an extension of the validity period to ensure the continued execution and commissioning of our plants
Justification for Period Sought	we require an extension of the validity period to ensure the continued execution and commissioning of our plants

Details of Payment

S.No	Payment Mode	UTR Number / Bank Transaction Number	Processing Fees	Date Of payment	Payment Status
1	NET-BANKING	pay_KzHO43v3FcsX7R	2655000	02-01-2023 16:10:56	Success

Signature Not Verified

Digitally Signed.
Name: VIJAYKUMAR NIRANI
Date: 26-Mar-2025 16:04:15
Reason: KUM
Location: Karnataka

Appendix – I (Contd.)

Copies of Approvals

- 9. *Licence for Possession & Use of Molasses for Manufacturing Rectified Spirit***

GOVERNMENT OF KARNATAKA

DEPARTMENT OF EXCISE



THE MOLASSES LICENCE HAS BEEN RENEWED FOR THE YEAR 2025-2026 AS PER
EXCISE COMMISSIONER'S ORDER NO. SC022/2025-2026/00105 DATED: 09/07/2025.

LICENCE NO : BKMB0012

Date :09/07/2025

LICENCE FOR POSSESSION AND USE OF MOLASSES FOR THE MANUFACTURE OF RECTIFIED SPIRIT

I, R Venkatesh Kumar, IAS, Excise Commissioner, in Karnataka, hereby licence you, M/s TruAlt Bioenergy Limited., Unit -04, (herein after called the Licensee) to possess and use molasses for the purpose of Manufacture of Rectified Spirit at Sy no 36/1, 36/2, 36/3, 36/4, 36/5, 37/2, 37/3, 37/4, 37/5, 10/3, 10/4, 10/5, 10/7, 10/9, 10/11, 10/17, 10/18, 10/19 & 10/20. Jalageri -587206 Taluk: Badami Dist: Bagalkot, Karnataka. with a quota of 300000 M.T (Three Lakh Only) of molasses per annum subject to availability for the period from 01/07/2025 to 30/06/2026, subject to the conditions to be observed by you (The licence fee of Rs.1000/- remitted vide E-Payment Ch.No. EX0725003900112778 dated:07-07-2025).

CONDITIONS

1. The Licensee shall observe such rules as may be prescribed by the State Government or such instructions and orders as may be issued by the Excise Commissioner from time to time in regard to the possession and use of molasses.
2. The Licensee shall be bound by such orders as may be passed by the State Government or Excise Commissioner concerning the possession and use of molasses.
3. The Licensee is prohibited from obtaining any molasses except with permission of the Excise Commissioner/any Officer authorized in this behalf.
4. The Licensee shall maintain proper accounts of transactions of Molasses and he shall produce true accounts for inspection by the competent authority.
5. The Licensee shall furnish any statistics relating to the production, storage and issue of molasses that may be required, when called upon to do so by the Excise Commissioner/Deputy Commissioner of Excise or any Officer authorized in this behalf.
6. The Licence may be suspended or cancelled for any violation of the licence conditions and the licensee shall not be entitled for any compensation on account of such suspension or cancellation.

PLACE : BENGALURU

EXCISE COMMISSIONER
IN KARNATAKA, BENGALURU

Digitally signed by RAMANATHAN
VENKATESHKUMAR
Date: 2025.07.09 16:38:06 +05:30

Appendix - II

Purchase Order for Civil Works



TRUALT BIOENERGY LIMITED

New Sugar Mill, Near Village Kerakalmatti, Badami Taluk, Bagalkot-587206,,Karnataka,INDIA.
PhoneNo:-08350282755,FaxNo:-08350281092,Email:-kedarnathsugars@gmail.com.

SERVICE PO

Service PO No : 7440000066	Date : 03.10.2024
Purchase Group : Civil	Plant : - UNIT - IV
Document Type :	
To, Vendor-TLM00825, MRN CIVIL TECH PVT LTD , JAMAKHANDI RURAL JAMAKHANDI, BAGALKOT, 587301	RFQ No : Your Qtn No GSTIN :29AAICT5347A1ZB Prepared by :SURESH
GSTIN : PAN No: AAJCM9633P Ph.No :+919880898650 Email : mrmciviltech@niranigroups.com	PO Type :Original Contact person :S. G. Yaragatti/ Shivaprabhu Shinde Cell No. :9379090050 / 7090520000 / 7022016714 Email : shivanand.yaragatti@niranigroups.com shivaprabhu.shinde@niranigroups.com
Contact Person :	Requested By:mallikarjun

Sir,

With reference to your quotation and techno-commercial discussion had with you, we are pleased to place the service po for the following subject to the terms & conditions specified here under.

Sr.No	Item Code	SAC	Description	Qty	Uom	Rate (INR)	Amount (INR)
1			Construction of 300 KLPD Grain Base Dist	1.000	LOT	186440,677.97	186,440,677.97
Construction of 300 KLPD Grain Base Distillery plant With Co-GEN							

Basic Total:		186,440,677.97
P&F:	0.00 %	0.00
CGST:	9.00 %	16,779,661.02
SGST:	9.00 %	16,779,661.02
Transportation:	--	0.00
Tcs:	0.00 %	0.00
Grand Total:		220,000,000.01

Note:ANNEXURE-1: SPECIFICATIONS

Terms and conditions:-

- 1.Payment :As Per Agreement Dated on September 27th 2024of Works.of Works.
- 2.Work completion period :As Per Agreement Dated on September 27th 2024
- 3.Required materials :NA.
- 4.Tools & tackles :NA.
- 5.In case of any dispute, the same will be subject to Bangalore Jurisdiction only.

Thanks & Regards

For TRUALT BIOENERGY LIMITED


Vishal M. Nirani
(Director OP)

Address for correspondence: Trualt Bioenergy Limited, 904/A, 9th Floor, World Trade Center, Brigade Gateway Campus, 26/1, Rajkumar Road, Malleswaram West, Bengaluru-560055
Phone:-080-23255000/23255600 E-mail:-contact@trualtbioenergy.com Website:-WWW.trualtbioenergy.com

Appendix - III

Purchase Order for Plant & Machineries



TRUALT BIOENERGY LIMITED

New Sugar Mill, Near Village Kerakalmatti, Badami Taluk, Bagalkot-587206, Karnataka, INDIA.
PhoneNo:-08350282755, FaxNo:-08350281092, Email:-kedarnathsugars@gmail.com.

PURCHASE ORDER

Purchase Order No: 7140000091		Date : 19.10.2024	
Purchase Group : Distillery	Plant: - UNIT - IV		
Document Type : TA Capital PO KSL			
To, Vendor-TLS00009	RFQ No:	Date: 19.10.2024	
M. P. Engineering Works	Your Qtn No:		
B-53, Giragaon Plot (RC)	GSTIN : 29AAICT5347A1ZB		
MUDHOL 587313	Prepared by: RAGHAVENDRA		
GSTIN : 29AAPFM4271L1ZL	PO Type: Original		
Ph.No:+919448920879	Contact person: S. G. Yaragatti/ Shivaprabhu Shinde		
Cell No:	Cell No.: 9379090050 / 7090520000 / 7022016714		
Email:mpew2000@gmail.com	Email:purchase@niranigroups.com		

Sir,

With reference to your quotation and techno-commercial discussion had with you, we are pleased to place the purchase order for the supply of following materials subject to the terms & conditions specified here under.

Sr.No	Item Code	Description	Make	Qty	Uom	Rate (INR)	Amount (INR)
1		SUPPLY OF 300KLPD Grain MACHINERY AND EQ		1.000	LOT	559491,525.42	559,491,525.42
300KLPD Grain based ethanol plant							

Basic Total: 559,491,525.42

P&F: 0.00 % 0.00

CGST: 9.00 % 50,354,237.29

SGST: 9.00 % 50,354,237.29

Transportation: - - 0.00

Tcs: 0.00 % 0.00

Grand Total: 660,200,000.00

Note: Technical Specification As Per Annexure

Terms and conditions :-

1. Payment : As Per Agreement
2. Freight : Included.
3. Transit Insurance : Nill.
4. Delivery Date : 01.10.2025
5. Guaranty : Nill.
6. Warrantee: Nill.
7. In case of any dispute, the same will be subject to Bangalore Jurisdiction only.
8. If PO exceeds Rs.50 lakhs during FY U/S 194Q will apply.

General Purchase order Terms and Conditions

- (1) During delivery of the material, please enclose original bills, without originals, we will not accept any material at the factory.
- (2) Supply quantity should tally with the ordered quantity.
- (3) Any damaged material must be replaced free of cost.
- (4) **TRUALT BIOENERGY LIMITED** reserves the rights to cancel the PO if the quantity/deliveries/services are not as per our Purchase order.
- (5) Invoices against the order should be received by **TRUALT BIOENERGY LIMITED** with mentioned material dispatch date. In case of any statutory tax liability due to delay in submission of such invoice by the vendor, the cost of said tax liability will be debited to vendor account.
- (6) **TRUALT BIOENERGY LIMITED** shall, in case of default of your timely supply or or Scheduled delivery of material/ service, procure the same from other sources and will debit the price difference, if any, to your account for which you shall not

raise any objections or claims, whatsoever concerned.

(7) The supplier shall be responsible and be liable to provide E-way form. In case the purchaser is made liable to pay any damages, compensation, and interest penalty or denied GST credit by the government authority concerned due to an error, omission and delay on the part the supplier to generate the e-Way bill (in required format) as well as negligence, mismatch, typo errors, delays concerning to any GST matters, the supplier shall solely be responsible and liable to pay the same at its sole cost and consequences and for purpose incurred on us, the supplier shall indemnify and hold the purchaser and its Directors and officers harmless from and against any claims if raised by the government/Authority concerned against the purchaser#s.

(8) Purchase order number should be indicated in the tax invoice & Credit note.

(9) All invoice and others documents like Purchase/ Service order number, GST registration number, vendor number, HSN/SAC code and HSN/SAC should be mentioned clearly.

(10) In case the input tax credit of GST is denied to TRUALT BIOENERGY LIMITED (INDIA) Due to mistakes of your end then all claims of tax, Penalty, Interest, costs, Expenses and liability that may arise due to such Non-compliance, will be debited and recovered for your company.

(11) You must provide certificate of Analysis, Food Grade Certificate, MSDS Certificate and Inspection Syndicate release order, wherever applicable which is necessarily to be sent along with the material, without which Materials shall not be unloaded by the concerned stored departments.

(12) Insurance and Transit insurance upto our factory site will be on your account.

(13) U/s 194Q TDS @ 0.1% to be deduct if the Purchase order Exceeds 50 lacs during FY, MRN Groups companies will deduct TDS on Advance payment or at the time of Invoice verification.

Thanks & Regards ,

For TRUALT BIOENERGY LIMITED



TRUALT BIOENERGY LIMITED



New Sugar Mill, Near Village Kerakalmatti, Badami Taluk, Bagalkot-587206, Karnataka, INDIA.
PhoneNo:-08350282755, FaxNo:-08350281092, Email:-kedarnathsugars@gmail.com.

PURCHASE ORDER

Purchase Order No: 9100000001		Date : 07.05.2025	
Purchase Group : Distillery		Plant: UNIT - IV	
Document Type : IPO MAT PO		Distillery	
To, Vendor-10001688		RFQ No:	
Raj Process Equipment & System Pvt		Your Qtn No:	
Jai Ganesh Vision, 3rd Floor Akurdi PUNE 411035		GSTIN : 29AAICT5347A1ZB Prepared by: RAGHAVENDRA	
GSTIN : 27AACCR7924F1ZA		PO Type: Amended:07.05.2025 (Net price changed)	
Ph.No:+912040710010		Contact person: S. G. Yaragatti/ Shivaprabhu Shinde	
Cell No:2040710010		Cell No.: 9379090050 / 7022016714	
Email:SALES@RAJPROCESSEQUIPMEN		Email: shivanand.yaragatti@niranigroups.com Shivaprabhu.shinde@niranigroups.com	

Sir,
With reference to your quotation and techno-commercial discussion had with you, we are pleased to place the purchase order for the supply of following materials subject to the terms & conditions specified here under.

Sl.No	Item Code	Description	HSN/SAC Code	Qty	Uom	Rate (INR)	Amount (INR)
1	11003608	Supply 300KLPD Grain Machinery and Equip	12345678	1.000	LOT	388898,306.00	388,898,306.00

Basic Total: 388,898,306.00

P&F: 0.00

IGST: 70,001,695.08

Transportation: - - 0.00

Tcs: 0.00

Grand Total: 458,900,001.08

Note: Technical Speciation As per Annexure.

Terms and conditions :-

1. Payment : As per Agreement.
2. Freight : Including up to FOR Site.
3. Transit Insurance : Nil.
4. Delivery Date : 01.10.2025
5. Guaranty : Nil.
6. Warrantee: As per mentioned in agreement.
7. In case of any dispute, the same will be subject to Badami Jurisdiction only.
8. If PO exceeds Rs.50 lakhs during FY U/S 194Q will apply.

General Purchase order Terms and Conditions

- (1) During delivery of the material, please enclose original bills, without originals, we will not accept any material at the factory.
- (2) Supply quantity should tally with the ordered quantity.
- (3) Any damaged material must be replaced free of cost.
- (4) **TRUALT BIOENERGY LIMITED** reserves the rights to cancel the PO if the quantity/deliveries/services are not as per our Purchase order.
- (5) Invoices against the order should be received by **TRUALT BIOENERGY LIMITED** with mentioned material dispatch date. In case of any statutory tax liability due to delay in submission of such invoice by the vendor, the cost of said tax liability will be debited to vendor account.
- (6) **TRUALT BIOENERGY LIMITED** shall, in case of default of your timely supply or or Scheduled delivery of material/ service, procure the same from other sources and will debit the price difference, if any, to your account for which you shall not raise any objections or claims, whatsoever concerned.
- (7) The supplier shall be responsible and be liable to provide E-way form. In case the purchaser is made liable to pay any

damages, compensation, and interest penalty or denied GST credit by the government authority concerned due to an error, omission and delay on the part the supplier to generate the e-Way bill (in required format) as well as negligence, mismatch, typo errors, delays concerning to any GST matters, the supplier shall solely be responsible and liable to pay the same at its sole cost and consequences and for purpose incurred on us, the supplier shall indemnify and hold the purchaser and its Directors and officers harmless from and against any claims if raised by the government/Authority concerned against the purchaser's.

(8) Purchase order number should be indicated in the tax invoice & Credit note.

(9) All invoice and others documents like Purchase/ Service order number, GST registration number, vendor number, HSN/SAC code and HSN/SAC should be mentioned clearly.

(10) In case the input tax credit of GST is denied to TRUALT BIOENERGY LIMITED (INDIA) Due to mistakes of your end then all claims of tax, Penalty, Interest, costs, Expenses and liability that may arise due to such Non-compliance, will be debited and recovered for your company.

(11) You must provide certificate of Analysis, Food Grade Certificate, MSDS Certificate and Inspection Syndicate release order, wherever applicable which is necessarily to be sent along with the material, without which Materials shall not be unloaded by the concerned stored departments.

(12) Insurance and Transit insurance upto our factory site will be on your account.

(13) U/s 194Q TDS @ 0.1% to be deduct if the Purchase order Exceeds 50 lacs during FY, MRN Groups companies will deduct TDS on Advance payment or at the time of Invoice verification.

Thanks & Regards ,

For TRUALT BIOENERGY LIMITED



Address for correspondence: Trualt Bioenergy Limited, Unit No. N-1501, 15Th Floor, World Trade Center, Brigade Gateway Campus, 26/1, Rajkumar Road, Malleswaram West, Bengaluru-560055
Phone:-080-23255000/23255600 E-mail:-contact@trualtbioenergy.com Website:-WWW.trualtbioenergy.com

TRUALT BIOENERGY LIMITED



New Sugar Mill, Near Village Kerakalmatti, Badami Taluk, Bagalkot-587206,,Karnataka,INDIA.
PhoneNo:-08350282755,FaxNo:-08350281092,Email:-kedarnathsugars@gmail.com.

PURCHASE ORDER

Purchase Order No: 9100000000		Date : 06.05.2025	
Purchase Group	: Distillery	Plant: UNIT - IV	
Document Type	: IPO MAT PO	Power	
To,	Vendor-20000702	RFQ No:	
ESBEE POWER SOLUTIONS PVT. LTD		Your Qtn No:	
S.NO. 87/2 VEERABHADRA NAGAR, BANER PUNE 411045		GSTIN : 29AAICT5347A1ZB Prepared by: SHREENIVAS	
GSTIN : 27AAECE4873A1ZT		PO Type: Amended:06.05.2025 (Net price changed)	
Ph.No:+919890132280		Contact person: S. G. Yaragatti/ Shivaprabhu Shinde	
Cell No:9890132280		Cell No.: 9379090050 / 7022016714	
Email:ESBEEPOWER@GMAIL.COM		Email: shivanand.yaragatti@niranigroups.com Shivaprabhu.shinde@niranigroups.com	

Sir,

With reference to your quotation and techno-commercial discussion had with you, we are pleased to place the purchase order for the supply of following materials subject to the terms & conditions specified here under.

Sl.No	Item Code	Description	HSN/SAC Code	Qty	Uom	Rate (INR)	Amount (INR)
1	11003600	65TPH BOILER CAPACITY ENHANCEMENT	85153000	1.000	NOS	264576,271.00	264,576,271.00
Complete Design, Engineering, manufacturing supply, Erection and conducting performance guarantee test of 55TPH and capacity enhancement of 55TPH to 65TPH Boiler.							

[Signature]

Basic Total: 264,576,271.00

P&F: 0.00

IGST: 47,623,728.78

Transportation: - - 0.00

Tcs: 0.00

Grand Total: 312,199,999.78

Note: The Scope of supply and work as per Annexure - I.

Terms and conditions :-

1. Payment : As per Agreement.
2. Freight : Including up to FOR Site.
3. Transit Insurance : Nil.
4. Delivery Date : 15.01.2026
5. Guaranty : Nil.
6. Warrantee: As per mentioned in agreement.
7. In case of any dispute, the same will be subject to Badami Jurisdiction only.
8. If PO exceeds Rs.50 lakhs during FY U/S 194Q will apply.

General Purchase order Terms and Conditions

- (1) During delivery of the material, please enclose original bills, without originals, we will not accept any material at the factory.
- (2) Supply quantity should tally with the ordered quantity.
- (3) Any damaged material must be replaced free of cost.
- (4) **TRUALT BIOENERGY LIMITED** reserves the rights to cancel the PO if the quantity/deliveries/services are not as per our Purchase order.
- (5) Invoices against the order should be received by **TRUALT BIOENERGY LIMITED** with mentioned material dispatch date. In case of any statutory tax liability due to delay in submission of such invoice by the vendor, the cost of said tax liability will be debited to vendor account.
- (6) **TRUALT BIOENERGY LIMITED** shall, in case of default of your timely supply or or Scheduled delivery of material/ service, procure the same from other sources and will debit the price difference, if any, to your account for which you shall not

raise any objections or claims, whatsoever concerned.

(7) The supplier shall be responsible and be liable to provide E-way form. In case the purchaser is made liable to pay any damages, compensation, and interest penalty or denied GST credit by the government authority concerned due to an error, omission and delay on the part the supplier to generate the e-Way bill (in required format) as well as negligence, mismatch, typo errors, delays concerning to any GST matters, the supplier shall solely be responsible and liable to pay the same at its sole cost and consequences and for purpose incurred on us, the supplier shall indemnify and hold the purchaser and its Directors and officers harmless from and against any claims if raised by the government/Authority concerned against the purchaser's.

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Thanks & Regards ,

For TRUALT BIOENERGY LIMITED



Vishal M. Nirani
(Director OP)

Address for correspondence: Trualt Bioenergy Limited, Unit No. N-1501, 15Th Floor, World Trade Center, Brigade Gateway Campus, 26/1, Rajkumar Road, Malleswaram West, Bengaluru-560055
Phone:-080-23255000/23255600 E-mail:-contact@trualtbioenergy.com Website:-WWW.trualtbioenergy.com



江苏格兰特干燥浓缩设备有限公司

Jiangsu Grand Drying and Concentrating Equipment Co., Ltd

PROFORMA INVOICE

Date: 28 May 2025

Invoice No: Grand-20250528

SEND BY

Jiangsu Grand Drying and Concentrating Equipment Co., Ltd
No.13, Yangxi Lily Road, Zhoutie Town, Yixing, Jiangsu, China

SEND TO

TruAlt Bioenergy
#S904, 9th floor, World Trade Center Brigade Gateway Campus,
#26/1, Dr Rajkumar Road, Malleswaram West,
Bengaluru-560055, India

Item	Description	Qty	Unit price(USD)	Total price(USD)
1	GZG1650m ² dryer	2	290,000	580,000
2	GH760 high speed mixer	1	15,000	15,000
				Total price 595,000 USD

Payment 1#: 30% advance payment: 178,500 USD

Payment Terms 1. 30% as an advance by T/T

2. 70 % L/C at sight or TT before delivery

INCOTERM: FOB Shanghai port

Bank details:

SWIFT BIC: COMMCNSHWXI

Beneficiary Bank: Bank of Communications, Yi Xing Sub-Branch

Address: 198 Renmin Middle Road, Wuxi, PRC. Postcode: 214001

Account Number: 394000690010210050865

Name: Jiangsu Grand Drying & Concentrating Equipment Co., Ltd

Address: No.13, Yangxi Lily Road, Zhoutie Town, Yixing, Jiangsu, China

VAT Registration: 91320282723536095H

BEST REGARDS

OVERSEA DEPARTMENT MANAGER

NANCY

JIANGSU GRAND DRYING & CONCENTRATING EQUIPMENT CO., LTD



姜丽花