



GO Green Energy India Pvt Ltd, Bangalore, India

Ref: GGBE/AA/IOCLBIO/BD200/1000LPD/107/22-23/
Offer for Bio-diesel Plant, Cap 200/1000 LPD

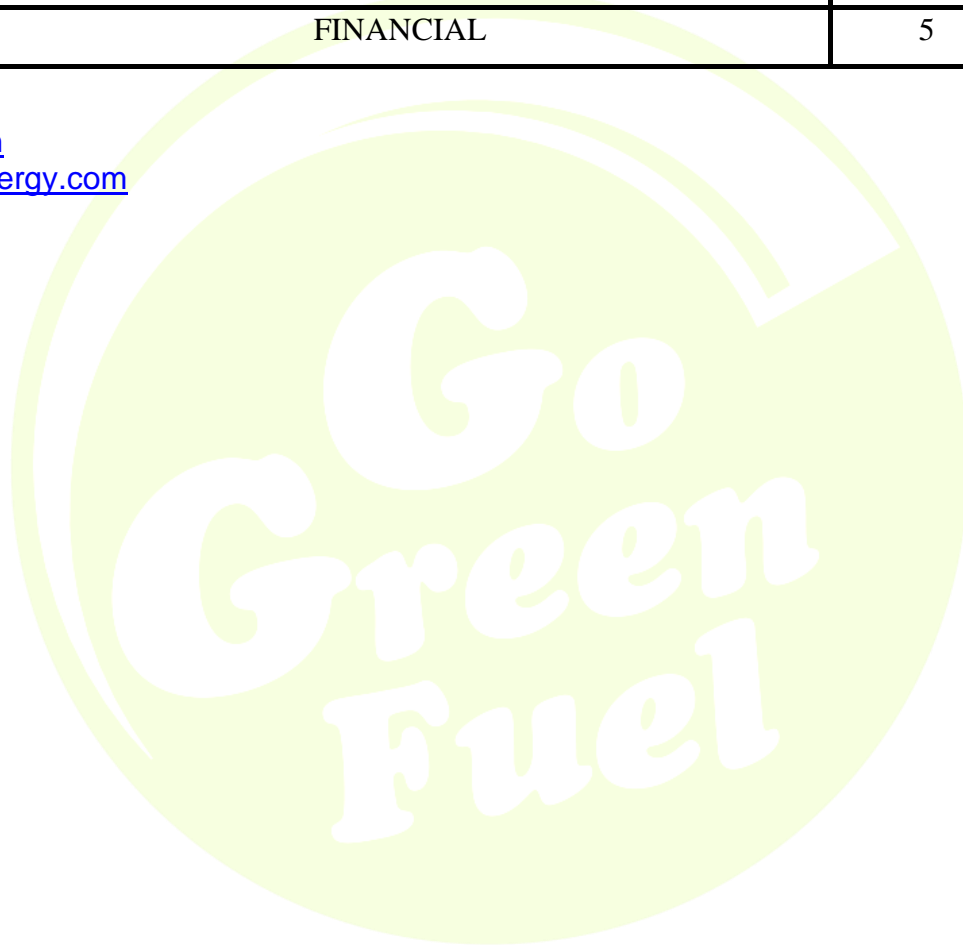
MULTIFEED BIODIESEL PLANT

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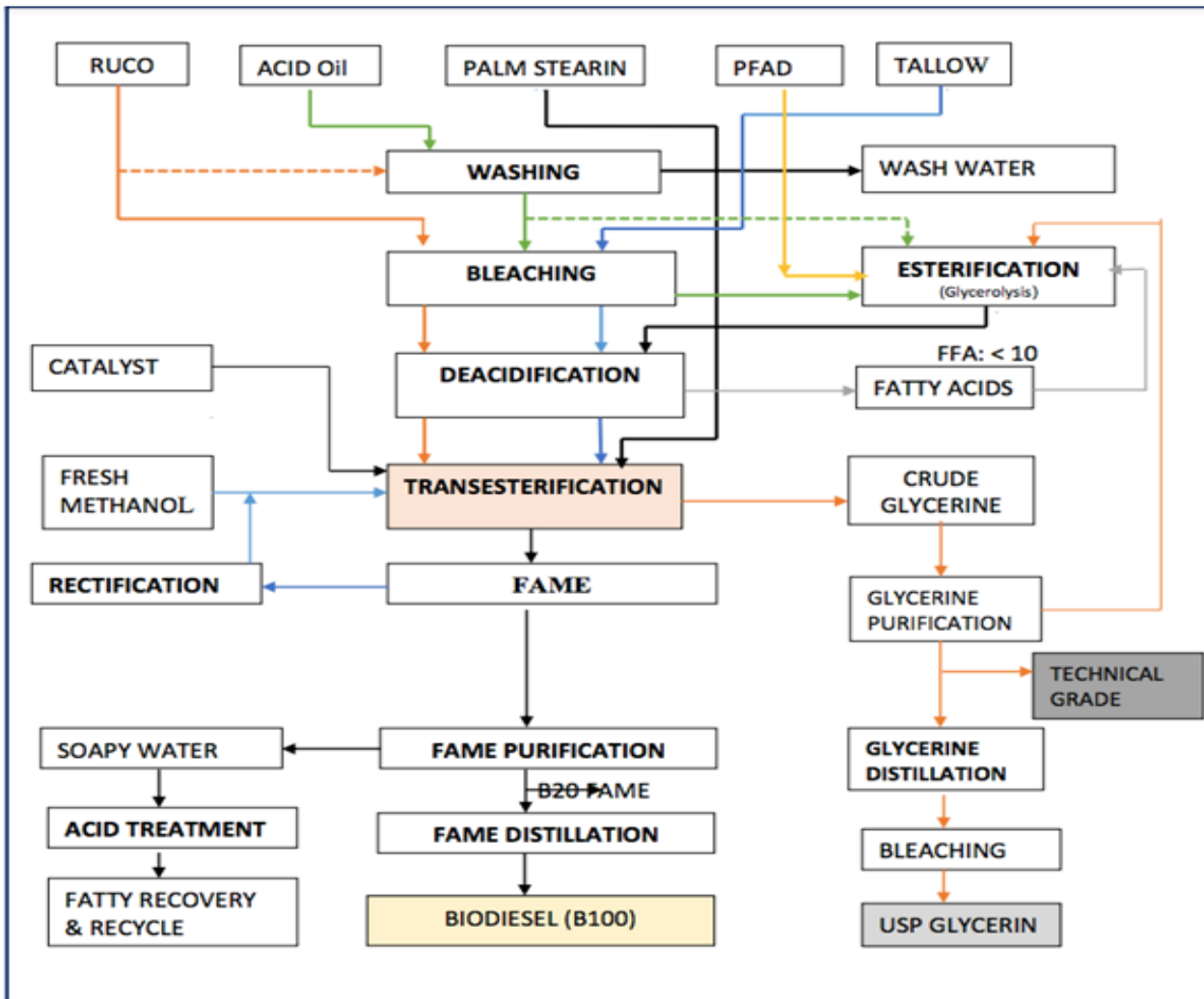
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1. BIODIESEL CHART



2. EQUIPMENTS

	DESCRIPTION	MOC	QTY.
MFR1	MULTIFEED REACTOR	MS / SS304	02
ST	GRAVITATIONALSETTLER	MS	01
DP-1	DOSING PUMP	LCP-CS	01
P1	Pump for recirculation to reactor. Type: Centrifugal Complete with casing, impeller, base plate, mechanical seal and coupling & motor.	LCP SS304	03
DT-1	METHANOL+CATALYST DOSING TANK	HDPE	01
DT2	GLYCERIN DOSING TANK	HDPE	01
DC1	DISTILLATION COLOUMN	LCP SS304	01
PP	INTERCONNECTED PIPELINE	MS	SET
P2	PUMP Pump for loading/unloading. Type: Centrifugal Complete with casing, impeller, base plate, coupling & motor.	LCP CS	02
C1	CONDENSER	LCP SS304/MS	01
STT	STORAGE TANKS	HDPE /MS	SUITABLE
DBR	DISTILLED BIODIESEL RECEIVER	MS	02
E302	ELECTRICAL HEATERS Electrical heaters for heating feed oil to process temperature. Type: patch or ceramic	SUITABLE	1 SET
VS	VACCUM SYSTEM	SUITABLE	1 SET
CP	CONTROL PANEL	SUITABLE	1 SET

INSTRUMENTS

	DESCRIPTION	QTY.
PI	PRESSURE INDICATORS	02
TI	TEMPERATURE INDICATORS	02
VG	VACCUM GUAGES	01

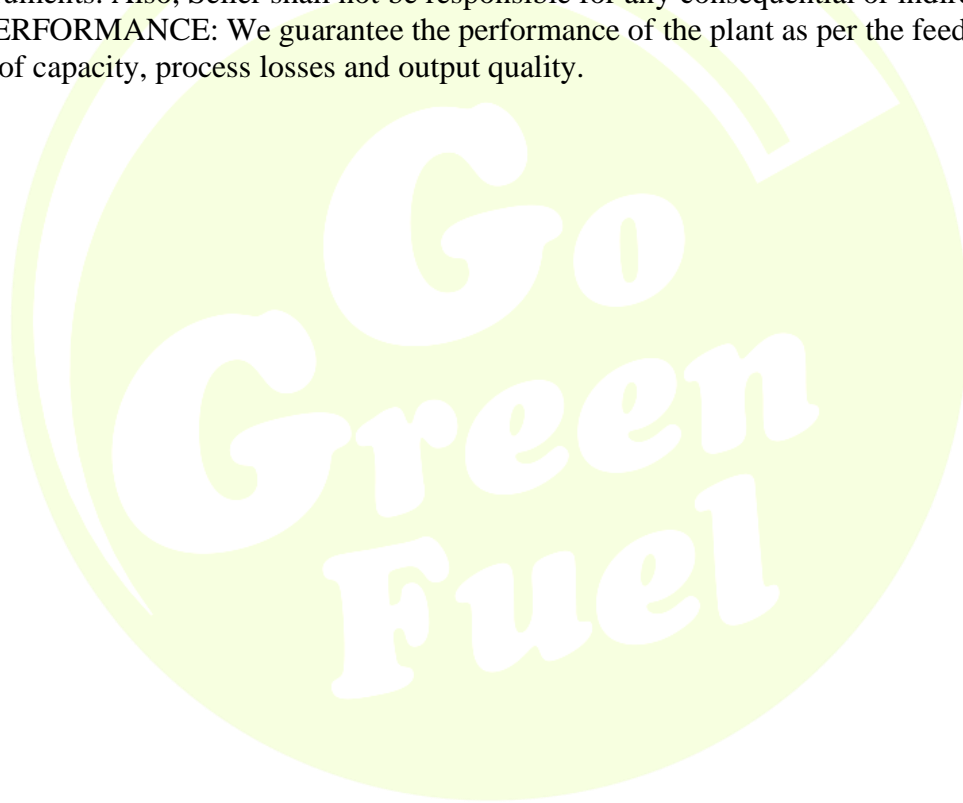
UTILITIES

	DESCRIPTION	QTY.
CT	COOLING TOWER WITH PUMP	01
WS	WEIGHMENT SCALE	01

WARRANTIES

We guarantee all equipment offered by us against material, workmanship and manufacturing defects for a period of 12 months from the date the plant has been taken into operation or 18 months from the date of shipment of last major equipment/ consignment to site whichever is earlier. This guarantee is subject to the following: - a) Purchaser operating plant/equipment as per operating instructions and procedures furnished by seller. b) Purchaser carrying out regular and preventive maintenance of equipment c) Purchaser not carrying out any modification or replacement without seller's approval in writing during guarantee period. Seller shall not be responsible for replacement or repairs for normal wear and tear of component due to operation and parts like rubber, glass and consumables, mechanical seal, gauges and instruments. Also, Seller shall not be responsible for any consequential or indirect damages.

GUARANTEE OF PERFORMANCE: We guarantee the performance of the plant as per the feed specifications given below in terms of capacity, process losses and output quality.



GUARANTEES OF PROCESS PARAMETERS

All the figures herewith apply simultaneously with +/- 15 % tolerance provided that the plant is operated with the same feedstock continuously for at least 24 hours under normal operating condition. The methods of the determination of the guarantees shall be worked out between the Seller and the Purchaser before commercial production during the commissioning of the plant. The criteria shall be discussed for the process parameters.

A. Feed Oil Quality Specifications:

Sr. No	Parameter	Unit	UCO	Acid Oil	PFAD	Palm Stearin	Tallow
1.	FFA content %	%	< 10	60	88 - 90	< 0.1	< 10
	2. Phosphatides Content (As P)	ppm	< 10	0.5	Nil	< 5	< 10
	3. Un-saponifiable Matter	%	< 1	0.5	0.5	< 1.5	< 1
	4. Moisture & volatiles	%	< 0.2	0.2	0.3	< 0.05	< 0.5
	5. Filterable Impurities	%	<0.2	<0.2	Nil	Nil	<0.2

B. PRODUCT QUALITY SPECIFICATIONS -

Sr. No.	Parameter	Testing Temp.	Unit	Crude FAME Specification value
1.	Color			Dark brown
2.	Density	15o C	kg / m ³	860 – 900
3.	Viscosity	40o C	mm ² /s.	2.5 – 6.0
4.	Flash point	-	o C	> 120
5.	Methanol content	-	%	< 0.2
6.	Moisture	-	%	< 0.05
7.	Sulphur	-	Ppm	< 10
8.	Free Glycerin content	-	%	< 0.02
9.	Total Glycerin content	-	%	< 0.25
10.	Phosphorous content	-	ppm	< 5
11.	Glyceride's content (mono, di & tri)	-	%	< 1.2
12.	Acid value	-	%	< 0.5
13.	Contaminants	-	ppm	< 24
14.	Ester content	-	%	> 96.5
15.	Cetane number	-	-	> 51

INSTALLATION & COMMISSIONING

A. SELLER'S SCOPE

1. Installation at the Project site for the activities described below:
 - Erection in areas of mechanical & piping and of equipment & accessories supplied by Seller as mentioned in this proposal.
 - Final alignment of all equipment and pressure testing of all pipelines after erection.
 - Insulation and cladding of equipment, tanks and piping inside the plant.
 - Electrical cabling work and instrument & control panel installation in plant only.
 - Mechanical runs of all the plant, machinery and equipment.

PURCHASER'S SCOPE

1. Carry out of complete civil and supply, including site grading and preparation, factory and utilities buildings, equipment and machinery foundations, rack foundation within plant. Carry out complete steel support structure if required for the plant.
2. Carry out of casting of foundations and grouting of base plates of equipment. The equipment will be installed on the foundations, aligned and foundation bolts inserted by us before the same are released to you for grouting and finishing.
3. Carry out building lighting and earthing network.
4. Supply of uninterrupted facilities like power, steam and water at specified points.
5. Provide site office with facilities to keep and safeguard all engineering documents as well as special tools belonging to us.
6. Free issue of all machinery, equipment, components and accessories kept by Purchaser to Seller as and when required to carry out erection.
7. Obtain all necessary licenses, permissions, and sanctions such as approvals by Factory inspectorate, Boiler inspectorate, explosive authorities, electrical inspectorate, pollution authority and other statutory authorities.
8. The fire-fighting facilities at project site.
9. Crane lifting facility for loading / unloading and placement of plant on site.

REQUIREMENTS FOR 200L BIODIESEL PLANT

1. Area: 1500 sq. ft shed Height: 7m
2. Power: 40 HP 3 phase
3. Water: 1000 liters one time and top up accordingly.
4. Foundation: Details upon confirmation of order.
5. Licenses: PCB, Factory Act, PESO.

COMMERCIAL

5.1 . PRICE SUMMARY

	Description	Price in INR
A	EQUIPMENT SUPPLY FOR 200 LTR BIODIESEL PLANT ON SKID MOUNTED	23,00,000
B	EQUIPMENT SUPPLY FOR 1000 LTR BIODIESEL PLANT ON SKID MOUNTED	50,00,000
C	Installation & Commissioning	2,00,000

5.2 PRICE BASIS

- The above-mentioned prices are excluding delivery.
 - **GST and transit insurance** are excluded from above price & will be paid by **Purchaser** at actual.
 - The above prices are in reference to Seller's equipment and plant design parameters, any deviation in later stage of the project will be at additional price settled mutually.
 - The charges towards any third-party inspection will be extra and to be borne by **Purchaser**.
 - Facility for internet, email and telephonic communication for Seller's personnel at Site to be provided by **Purchaser**
 - On Site accommodation for Seller's contractors & its team, to be provided by **Purchaser**.
 - Medical facility in case of emergency to be provided by **Purchaser**.
 - During installation any failure of the machines, purchaser has to provide support and if possible, arrange the same locally for which charges has to be paid by **Seller**.
- Purchaser** to bear accommodation, food and travel cost for the Seller's team whenever they come for inspection of site, installation, commissioning, testing, etc.
- Any amount paid as advance or balance amount for supply of equipment or service, the amount will not be refunded at any cost.

5.3 TERMS OF PAYMENT

For Supply of Equipment

75% advance against PO and balance against Performa invoice before dispatch with full value of all appl the initial signup amount will be rupees 10Lakh for the project and for more than 75% advance along with the order and balance 25% along with charges of packing, forwarding, freight, insurance as well as applicable taxes and duties like excise duty and sales tax against dispatch documents through your bankers. Bank charges will be borne by the purchaser. cable duties, applicable taxes and any other levies on pro-rata basis.

The prices quoted for the plant/equipment are based on the current prices of stainless steel, MS, aluminum, Copper and such other materials are going into the manufacture thereof. Should there be any abnormal increase in prices during the period the plant is in the process of fabrication, the buyer shall be liable to pay such increased cost based on actual increase on a percentage basis on the equipment quoted for.

For Services

75 % advance along with order and balance against progressive bills including all applicable duties, applicable taxes and any other levies. For delay beyond the estimated period, services will be charged additionally @ INR 7500/man-day.

5.4 VALIDITY

Our proposal is valid for your acceptance till 10 DAYS from the date of this proposal and is subject to our confirmation thereafter.

5.5 DELIVERY

The delivery period required for supply of goods is **8 weeks** from the receipt of confirmed Purchase Order on Seller along with advance payment.

5.6 INSPECTION

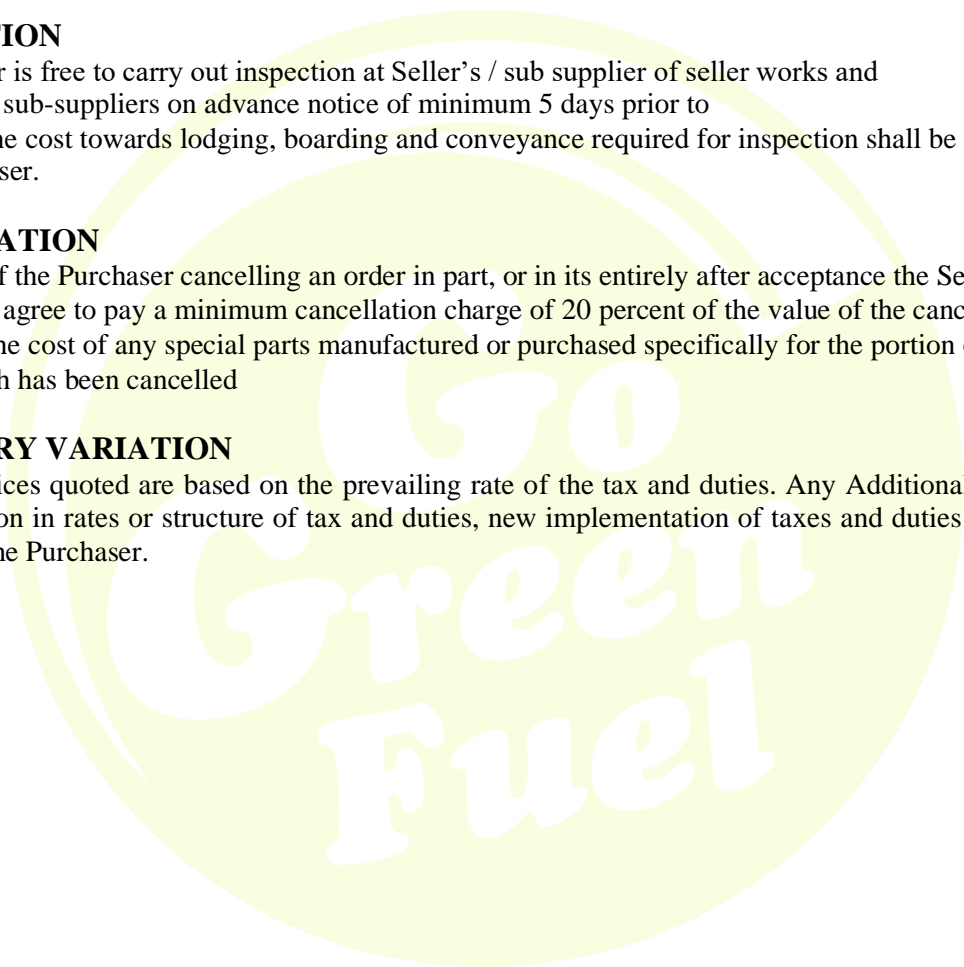
The Purchaser is free to carry out inspection at Seller's / sub supplier of seller works and workshops of sub-suppliers on advance notice of minimum 5 days prior to inspection. The cost towards lodging, boarding and conveyance required for inspection shall be borne by the Purchaser.

5.7 CANCELLATION

In the event of the Purchaser cancelling an order in part, or in its entirety after acceptance the Seller, the Purchaser agree to pay a minimum cancellation charge of 20 percent of the value of the cancelled portion plus the cost of any special parts manufactured or purchased specifically for the portion of the contract which has been cancelled

5.8 STATUTORY VARIATION

The above prices quoted are based on the prevailing rate of the tax and duties. Any Additional cost due to variation in rates or structure of tax and duties, new implementation of taxes and duties shall be borne by the Purchaser.



BANK ACCOUNT DETAILS

STATE BANK OF INDIA

ACCOUNT NUMBER: 37301765068

ACCOUNT NAME: GO GREEN BIOENERGY INDIA PVT. LTD

BRANCH: CENTRAL BUSINESS DISTRICT BANGALORE

IFSC CODE: SBIN0011349

5.9 FORCE DE MAJEURE

The seller shall be excused from liability if performance of the contract is prevented or hindered by any cause whatsoever beyond the control of the Seller and in particular but without prejudice to the generality of the Foregoing by act of God, War, Government Control, restrictions or prohibitions or any other Government act or commission whether local or national, fire accident, fuel power, components or transportation: strike or lockout, and shall not be liable for any loss or damage resulting from any such circumstances

CONTACT DETAILS:

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THANK YOU

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