



***APPLICATION  
FOR  
GREEN FUEL STATION  
(BIODIESEL)***

## **NATUROL BioEnergy LIMITED**

**Regd. Office :** Plot # 1056/l, Road # 45, Jubilee Hills, Hyderabad - 500 033. A.P., India.

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## **OUR VISION**

*To become end-to-end service enabler for biofuel products and ecological solutions with world-class quality standards, cost-competitive approaches, and to exceed expectations of the customers.*

## **OUR MISSION**

Naturol is determined to offer the most effective, high-quality biofuel products, services, support to clients in various geographical regions and continents. We are aimed to consolidate our service offerings with quality standards under the guidance of internationally acclaimed quality certification experts. In order to accomplish our vision, we have adopted the following mission objectives:

- To set up India's first integrated Biofuels Plant derived from renewable sources
- To be the one-stop-shop for all oleochemical products and services
- To create an opportunity for sustainable development for rural communities in bringing energy and agriculture sectors
- To provide a fully developed support systems for farmers in rural communities to such initiatives
- To offer clients with wide-range of biofuel products
- To comply with the international quality standards in delivering products in diverse geographical regions
- To adopt world-class infrastructural facilities in an enabling and practical environment



## About

### NATUROL BioEnergy LIMITED

Naturol Bioenergy Limited was incorporated in 2005, and is headquartered in Hyderabad in the state of Andhra Pradesh, India to promote state-of-the-art Integrated Oleochemical Complex at the port town of Kakinada, Andhra Pradesh. Our main emphasis is on offering environmental friendly biodiesel and allied products and services with an envisaged production capacity of 100,000 tonnes per annum.

As an integrated company, we collect non-food vegetable oils and related feedstocks and process them into biodiesel. We market the final product through the traditional fuel supplier network chain.

We have been growing with a rapid pace to accomplish our mission of becoming a globally reputed leading integrated biodiesel manufacturing facility. Our production processes are not only economical but also environment friendly.

Naturol is funded with the investment of Rs. 140 crore (USD 32 Million) financed by investments from Venture Capital Investors and term loans from banks and financial institutions, the biodiesel facility enabled to use multiple grades of vegetable oils including fatty acid oils and reduced the cost of production. The facility is ahead of its competition as a result of its unique design, services and scalability.

## Evolution

Naturol Bio has come a long way since it was founded in 2005. It has been over years become an end-to-end biofuel energy products and services provider. Now it has been considered as complete ecological solution development organization catering the needs of target markets such as Indian Railways, Road Transportation Corporations in different states of India, Petroleum Retail majors and other institutional customers.

### **Naturol offers capabilities from conceptualization to execution and measurement in biodiesel sector:**

- First Integrated Biodiesel Plant being set up at Kakinada, Andhra Pradesh with 100,000 TPA (Tons Per Annum) capacity.
- 10,000 TPA Pharma Glycerine plant.
- Project structured as 100% EOU with Capital Investment of USD 31.0 million from Venture Capital Investors and Banks.
- Commenced operations from October, 2007.
- Forward Integration into Methyl Ester Sulphonates (MES) and Fatty Alcohols and capacity enhancement to 1000 TPD by 2009.
- Product mix includes Biodiesel & Pharma-Glycerin
- Feedstocks include oils derived from Palm, Soya and Jatropha - domestic and imported.
- Capable of scaling up production 3 times with proper infrastructure in place.
- Dedicated pipeline from production plant to port for exporting biodiesel without contamination.
- Ultramodern automation facilities to better service delivery.
- Every shipment is quality certified by internationally accredited firms according to international standards – ASTM – D6751 and EN – 14214.



## **NATUROL BIODIESEL APPLICATIONS**

### **On-road Vehicles:**

Practically every diesel engine powered vehicle on the roads. ( Millions of miles were logged on biodiesel in EU nations )

### **Off-road Vehicles:**

Naturol fuel can be used for off road construction, mining, and farm machinery

### **Stationary Power Generation:**

With new power generation capacity coming online, Naturol biodiesel makes an attractive choice to meet the regulations. Many stationary application are permitted sources requiring exhaust emission control system, which will work well with biodiesel but will not work with diesel fuel.

### **Boiler Fuel:**

With natural gas prices rising high, biodiesel can be substituted easily for natural gas with minor changes necessary to the burner train.

### **Hybrid Vehicles:**

With many states now mandating hybrid electric vehicles (including the fuel cell hybrid), biodiesel will make excellent reforming fuel.

### **Agriculture Adjuvants:**

Biodiesel is used as a carrier for pesticides and fertilizer in agriculture sprays due to it being non-toxic and biodegradable.

### **Solvents:**

Biodiesel can be used as industrial solvents and as a replacement of high VOC containing petroleum solvents. With regulations driving the VOC contents lowers for solvents used in industries, biodiesel offers an attractive solution.. Other solvent applications are household cleaning agents.

### **Lubricity Agent/Additive:**

Naturol biodiesel can also be used as a lubricity agent/enhancer in many applications. It is especially useful in marine applications where water contamination with petroleum lubricity agents can create problems. With the low-sulfur fuel regulation of future, biodiesel can be used as a lubricity additive. A 1-2% biodiesel added to diesel fuel can increase diesel lubricity by 65%.

### **Fuel Additive:**

Biodiesel can also be used as a diesel fuel additive for the purpose of keeping the injectors, pumps and other combustion components clean. A 1-2% blend should be sufficient for this purpose.

**And many many more!!!**



## NATUROL BIODIESEL SPECIFICATIONS

Sl. No.	Property	Specification	Method	Units	Result
1	Density;15 °C	860-900	EN ISO 3675 IS1448(P16)1990	Kg/m <sup>3</sup>	873.8
2	Kinematics Viscosity;40°C	2.5-6.0	EN ISO3104 IS1448(P25)1976	mm <sup>2</sup> /S	4.8
3	Flash Point(PMCC)	120 min	IS1448(P21)-1992	°C	140
4	Sulfur Content	50.0	ASTM D 5453 IS1448(P83)1974	mg/kg	1.8
5	Carbon residue	0.05 max	EN ISO10370 ASTM D 4530	% by mass	0.021
6	Sulfated ash	0.02 max	ISO 3987 IS1448(P4)1984	% by mass	0.0096
7	Water content	500 max	ASTM D 2709 IS1448(P40)	mg/kg	390
8	Total contamination	24 max	EN 12662	mg/kg	18.91
9	Copper strip corrosion(3h,50°C)	1.0	EN ISO 2160 IS1448(P:15)2004	Degree of corrosion	1a
10	Cetane number	51 min			62.83
11	Acid value	0.50 max	IS1448(P:1)/Sec1	mg KOH/g	0.35
12	Methanol Content	0.20 max	EN14110	%(mol/mol )	0.0824
13	Ester Content	96.5 min	EN14103	%(mol/mol)	97.5
14	Free Glycerin	0.020 max	EN14105,EN14106 ASTM D 6584	%(mol/mol )	0.015
15	Total Glycerin	0.25 max	ASTM D 6584, EN 14105	%(mol/mol)	0.16
16	Phosphorus content	10.0 max	ASTM D 4951 EN14107	mg/kg	1.26
17	Group 1 metals (Na+K)	TO REPORT	EN 14108,EN 14109	mg/kg	2.01
18	Group II metals(Ca+Mg)	TO REPORT	PrEN14538	mg/kg	0.18
19	Iodine Value	TO REPORT	EN 14104	g I <sub>2</sub> /100g	52.68
20	Oxidation stability, at 110 °C	6.0 min	EN 14112	Hours	19.0

## OUR CONCEPTION OF GREEN FUEL STATION TO MARKET BIODIESEL

1. The **GREEN FUEL STATION** should look cozy, inviting and with good ambience.
2. The **GREEN FUEL STATION** should have proper and convenient ingress & outgress.
3. The **GREEN FUEL STATION** should have compound Wall/enclosure on three sides with open frontage abetting MDR/NH/SH way.
4. The **GREEN FUEL STATION** should have a Sales Building/Prefabricated Kiosk to house the Manager/Owner to sit and do the job. It should also be such that products that are sold are visible.
5. The **GREEN FUEL STATION** should have facility of (a) Free Air (b) Free Water (c) Toilet.
6. The **GREEN FUEL STATION** should have proper signage boards, preferably with details such as (a) Product dispensed (b) rate (c) facilities available (d) working Hours etc. (The Company will design and provide the signage)

(Note: The **GREEN FUEL STATION** is to be developed as per the standard Lay out provided by the Company)



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## Application for Biodiesel GREEN FUEL STATION

Space for  
Photograph

### 1. Application data

Name of the Location	
Revenue Dist	
State	

Application Fee	Amount :
DD No/date	
Name of Bank on which DD Drawn	

Date of Advertisement	
Paper	
Last Date for receipt of FilledApplications	

Are You Applying as Individual	Yes / No
Are You Applying as Individual/Partership firm/Regd Firm/Govt organization/ Corporation/Undertakings	
If above is yes, please provide details.	

Name of the Location	
Revenue Dist	

## 2. Personal Data

Name of candidate	Ms Mr Mrs
Father's/Husband name	
Address for correspondence	
Telephone No. if any	

Nationality	
Gender	Male/Female
Date of Birth(Note: Proof of Date of birth to be attached)	
Marital Status	Married/Unmarried/Single/Widow/Divorcee

## 3. Qualifications

	Certificate	Board / University	Years of Passing
SSC/Matriculation			
Graduate			
Post Graduate any			
Professional/Addnl qualifications,if any			



Name of the Location	
Revenue Dist	

#### 4. Details of Experience

Type of Service	Name & Address of organisation	No of years
Direct Sales/Home delivered products		
Petroleum industry		
Any other trade		

#### 5. Capability to provide suitable land

**(site: Min. Dimensions: on NH/SH : 150' x 150', Others: 120' x 100')**

Are you having suitable site	Yes/No
Is the site held in your name or taken on lease	
Site Details (Annexure-A) to be enclosed	Yes/No
Any Encumberance on land	Yes/No
Will you be able to develop Retail Outlet as per our Company requirements(Details given in Separately)	

#### 6. Capability to provide funds

How much Funds you will be able to invest in retailing Biodiesel	
Do You need any financial assistance from Banks	
Annexure B is required to be enclosed	Yes/No

Name of the Location	
Revenue Dist	

## 7. Other Information

Have you ever been convicted or charges have been framed by any Court of Law (If yes you are not eligible to apply)	
How Soon you will be able to commence the Sales activity, if selected How you would like to run the business(A brief giving details to be given)  Statement of our Vision enclosed	Yes/No

### Undertaking

I, \_\_\_\_\_ son of/daughter of/ Wife  
of \_\_\_\_\_ hereby confirm that the  
information given above is true and to the best of my knowledge. Any wrong information/misrepresentation/suppression of  
facts will make me ineligible for award of GREEN FUEL STATION in my name.

I also undertake to abide by all the trade terms & conditions stipulated by M/s **Naturol Bioenergy Limited**.

Signature of applicant	
Name of Applicant	
Place	
Date	

Name of the Location	
Revenue Dist	

**Details of Site:**

Sl. No.	Details	Remarks(tick whichever is applicable)	
1	Location of Site : Place/Village/Rev. Dist.		
2	Ownership of site(Note:If the site is on lease, the lease period should be for minimum 15 years)	a. Owned b. Taken on Lease	
3	Plot No./Survey No./		
4	Site Dimensions	a. Frontage : b. Width :	
5	Site condition	a. Levelled b. Uneven & needs to be developed	
6	Whether site located on NH/SH/Main Dist. Road		
7	Details of any other Diesel Outlet located within 10 Kms on either side of the site offered by the applicant for putting up Biodiesel GREEN FUEL STATION	Name of Oil Co.	No of GREEN FUEL STATIONS Already exist
8	Any other relevant details about the site		

Name of the Location	
Revenue Dist	

**Details of Finance / Funds :**

Sl. No.	Details	Remarks			
1	Cash on Hand/with Bank as of	a. Cash On hand b. Cash at Bank c. Bank address:			
2	Details of FDRs/Other Deposits held in the name of applicant	FDR Details	Bank	Amount	Date of maturity with amount receivable
3	Any other income _(such as Agriculture/Salaries/Business/Rents etc.) Please give details separately.				
4	Details of Income Tax Returns filed, if any				

**Details of Enclosures**

Sl. No.	Details of enclosures	
1	Demand Draft	Yes/No
2	Proof of Age/qualification	Yes/No
3	Annexure A	Yes/No
4	Annexure B	Yes/No
5	A brief on how you would like to conduct the business	Yes/No