



STAR BHARAT™
BI Petroleum

ISO Certified : 9001-2015



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Company Introduction

We, the group of people, who learnt from the experiences of how to discover and invent the path of success for the development of the Nation. Our target is to create a substitute for petroleum energy in the form of Biofuels and make the country pollution free.

Biofuels, the sustainable energy system, may be regarded as a cost-effective, trustworthy, and environment friendly system that efficiently makes use of local resources. Biofuels have additionally been lumped into first-, second- and third-generation categories. We use first-generation biofuels in our fuel tanks today. Biofuels are relatively similar to hydrocarbons and feature some of the similar emission problems like that of standard fossil fuels. Biofuels are an inexhaustible resource since the stock can be replenished through agriculture.

Our Mission

To contribute in Government of India's undertaking in giving substitute energy arrangements which are supportable, sustainable and climate amicable.

Vision

Our target is to create a substitute for petroleum energy in the form of Biofuels and make the country pollution free.





Bio-Diesel Objectives

Bio-Diesel also finds use as a lubricity agent in low and ultra-low sulphur diesel fuels where the addition of as little as 2% biodiesel to petroleum diesel significantly improves the lubricity of the fuel.

Globally, the production and use of bio-diesel has been well received, particularly in environmentally sensitive areas such as the forestry and fishing industries where the biodegradable characteristics of bio-diesel are an attractive alternative. Bio-Diesel has also proven to be the fuel of choice for heavy equipment users in built up areas, renewable power generation and public transport.

Bio-Diesel is an alternative fuel similar to conventional or 'fossil' diesel. Bio-Diesel can be produced from straight vegetable oil, animal oil/fats, tallow and waste cooking oil. The process used to convert these oils to Bio-Diesel is called transesterification. This process is described in more detail below. The largest possible source of suitable oil comes from oil crops such as rapeseed, palm or soybean. The rapeseed represents the greatest potential for bio-diesel production.

Why Bio Diesel?

India is one of the fastest developing economy and energy is a basic contribution for its development, particularly in transport area.

Most extreme necessity of transport powers is provided food by petrol based energizes. Out of this, just 20% of absolute interest is met by homegrown creation of raw petroleum while rest is through imports. Besides, raw petroleum is a restricted asset, its non-sustainable and furthermore liable for expansion in contamination level.

To handle the various issues of expanding contamination, reliance on expensive rough imports and to find limitless wellspring of energy, Government of India is advancing the utilization of biodiesel, as an independent or its mixing with traditional diesel.



What is Bio Diesel

- ✦ Biodiesel is a perfect consuming inexhaustible fuel made utilizing normal vegetable oils and fats.
- ✦ Biodiesel is made through a synthetic cycle which converts oils and fats of regular beginning into unsaturated fat methyl esters (FAME). Biodiesel IS NOT vegetable oil.
- ✦ Biodiesel is planned to be utilized as a trade for oil diesel fuel, or can be mixed with petrol diesel fuel in any extent.
- ✦ Biodiesel doesn't expect alterations to a diesel motor to be utilized.
- ✦ Biodiesel has decreased fumes discharges contrasted with oil diesel fuel.
- ✦ Biodiesel has lower harmfulness contrasted with oil diesel fuel.
- ✦ Biodiesel is more secure to deal with contrasted with oil diesel fuel.
- ✦ Biodiesel quality is administered by ASTM D 6751 quality boundaries.
- ✦ Biodiesel is biodegradable.

Biodiesel is a type of diesel fuel got from plants or creatures and comprising of long- chain unsaturated fat esters. It is commonly made by artificially responding lipids like creature fat (tallow),soybean oil, or another vegetable oil with a liquor, delivering a methyl, ethyl or propyl ester by the course of transesterification.

Not at all like the vegetable and waste oils used to fuel changed over diesel motors, biodiesel is a drop-in biofuel, meaning it is viable with existing diesel motors and conveyance framework. Be that as it may, it is normally mixed with Petro diesel (commonly to under 10%) since most motors can't run on unadulterated Biodiesel without modification. Biodiesel mixes can likewise be utilized as warming oil.



बायो डीजल का भविष्य ।

विस्तारित जैव ईंधन अनुरोध ने उच्च विश्व खाद्य और फ़ीड लागत को जोड़ा है। जैव ईंधन संभवतः उच्च ऊर्जा लागतों के लिए उत्तर की व्यवस्था के लिए महत्वपूर्ण होगा, जिसमें संरक्षण, अधिक कुशल ऊर्जा अन्य वैकल्पिक शक्तियों का अंतहीन उपयोग शामिल है।

बायोडीजल के लाभ

एक अप्राकृतिक मौसम परिवर्तन और किफायती जीवन पूर्वाभ्यास पर लगातार ध्यान देने के साथ अमेरिकी पारंपरिक और गैर नवीकरणीय ऊर्जा के बजाय जैव ईंधन स्रोत उपयोग में बदलाव कर रहे हैं।

जैव ईंधन वे शक्तियां हैं जिन्हें पौधों और फसलों से हटा दिया गया है। यह ऊर्जा जिन्हें फिर गैस के साथ मिश्रित किया गया है और अपने वाहन के लिए एक वैकल्पिक ईंधन बनाए गए हैं। सबसे उल्लेखनीय जैव ईंधन बायोडीजल और इथेनॉल है। यह ऊर्जा स्थाई संपत्तियों से आती है और सामान्य आबादी अर्थव्यवस्था और गृह को लाभ प्रदान करती हैं।

Energy Efficiency

One of the essential advantages of utilizing biodiesel is energy effectiveness. While petrol diesel is right now more effective for use in a vehicle or truck, biodiesel creation is more energy proficient. As indicated by analysts at the University of Idaho and the U.S. Branch of Agriculture, for each petroleum derivative energy unit expected to develop and refine soybeans for biodiesel, four and a half units of energy are created. With oil diesel, short of what one unit of energy is produced in kind.

Decreasing Foreign Oil Dependency

Choosing environmentally friendly power like biofuel will assist decrease America's reliance on unfamiliar oil in blend with other reasonable measures. For instance, specialists say that utilizing biogas, sanctioning assessment motivators for half and halves and energy component vehicles, and increasing mileage expectations for engine vehicles will assist with weaning the United States off the requirement for unfamiliar oil.



■ Medical advantages

It's been accounted for that around 10,000 individuals kick the bucket from contamination connected with fuel motors consistently in the United States. That is on the grounds that gas discharges nitrogen oxide and acetaldehyde up high. These particles respond with daylight to shape exhaust cloud, which brings about air contamination. This air contamination then, at that point, makes issues like lung illness, disease, and the sky is the limit from there. Utilizing biodiesel or biomethane altogether diminishes the particulates being delivered up high, prompting better air quality and undeniably less contamination.

■ Positive Economic Impact

One more advantage of utilizing biofuel is its positive financial effect. Biodiesel creation decidedly affects the economy throughout the course of recent years. For instance, According to Biofuels Journal, biodiesel creation was at around 500,000 gallons in 1999. Only decade after the fact, in 2009, it was at 545 million gallons. That additional an astounding \$4.28 billion to the GDP.

■ Diminishing Greenhouse Gases

Whether you think a worldwide temperature alteration is a characteristic event or a man-made peculiarity, the vast majority know it's significant and should be tended to. At this point, the typical researcher concurs that petroleum derivatives have had an enormous hand in adding to an unnatural weather change. Notwithstanding, the utilization of environmentally friendly power like biofuel can help fundamentally diminish ozone harming substances that add to an Earth-wide temperature boost. Truth be told, one concentrate out of Australia showed that the utilization of biodiesel produced using cooking oil could lessen ozone depleting substance emanations by as much as 87%.

■ Manageability

A critical advantage of utilizing biogas or biofuel is that it's more maintainable than its petroleum product partner. Petroleum products are a limited asset; at some point, the world will run out. Then again, biofuels are sustainable power produced using plants. We can set plants so they might develop again and again to keep making biofuel. There are likewise a wide range of sorts of biofuel produced using different sorts of plants. Contrasted with customary petroleum products, the opportunities for biofuels are apparently interminable.

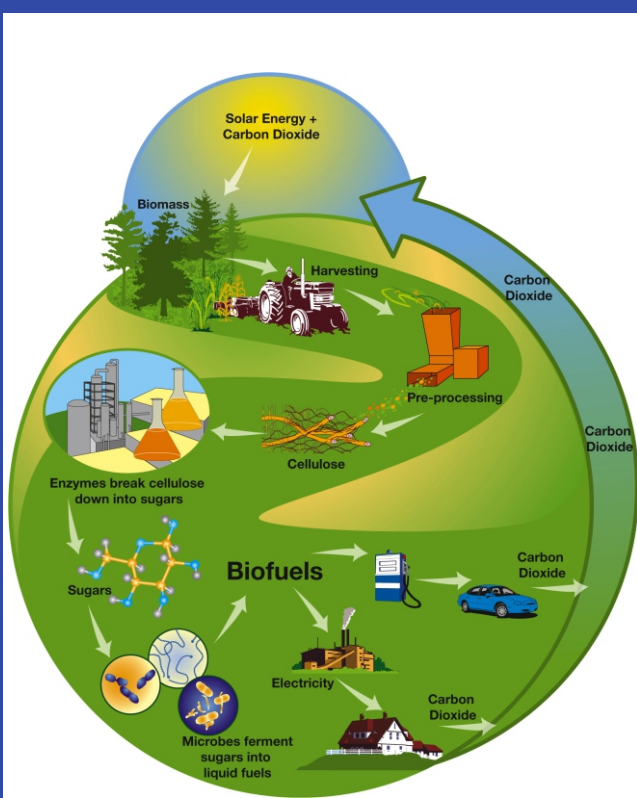
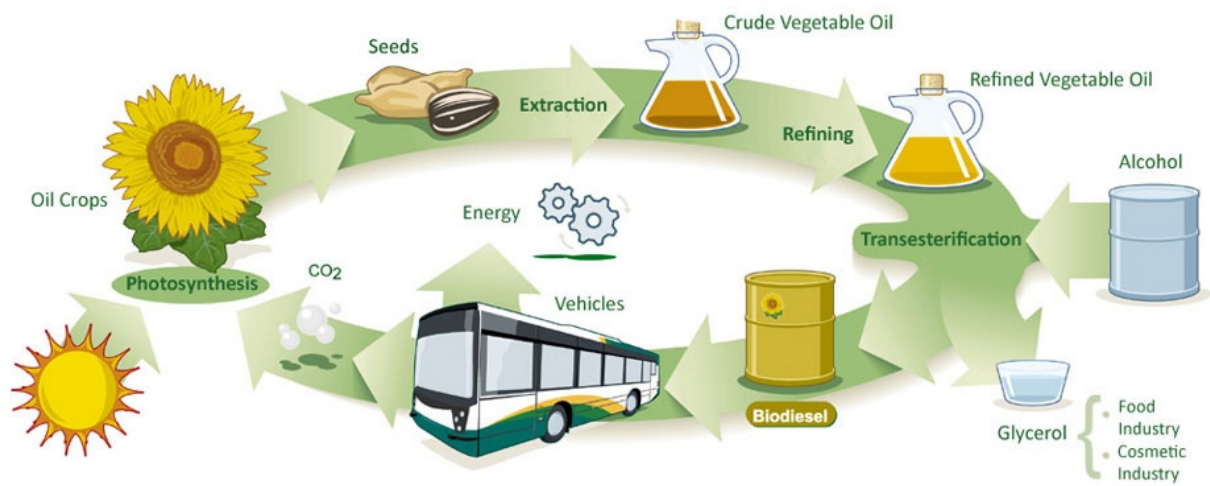
■ Great Engine Performance

A last advantage of utilizing biofuels is that they offer great execution. Biofuels can be utilized in existing diesel motors with next to zero alterations important to the framework. In the greater part of these vehicles, the exhibition is something similar, while perhaps worse. Studies have shown that biofuels additionally assist motors with enduring longer since they don't have a high consistency rate.





The Biodiesel Cycle





Area Required

NATIONAL HIGHWAY

Rural Area –

4 Lane (35M x 45M) =114.8Foot x 147.6 Foot

2 Lane (35M x 45M) =114.8Foot x 147.6 Foot

Urban Area-

(35M x 45 M) = 114.8 Foot x 147.8 Foot

STATE HIGHWAY

Rural Area-

(35M x 35M) =114.8 Foot x114.8 Foot

Urban Area-

(35Mx 35M) = 114.8 Foot x 114.8 Foot

MDR ROAD

(25M x 25M)-82.0 Foot x 82.0 Foot

PWD

(25M x 30M)-82.0 Foot x 98.4Foot

	NOC / Registration Required
1.	District Magistrate / District commissioner
2.	Petroleum and explosives safety organization (PESO) licence (if required)
3.	National / State Highway Authority
4.	Weight and Measurement Department
5.	Land certifate of commercial land from district administration
6.	GST Registration
7.	Fire Department
8.	Shop & Establishment Act
9.	Environment clearance from the pollution control board of the respective state

NOTE:-

1. Project completion time is maximum 120 days
2. Interest @12% per annum will be charged if the amount is not paid on agreed time
3. Freight charge will extra for tank, dispenser & totem

BANK NAME	HDFC BANK
ACCOUNT HOLDER NAME:	StarBharat Bio Petroleum Private Limited
ACCOUNT NO. :	59218003096555
IFSC CODE :	HDFC0002519
TYPE OF ACCOUNT:	Current Account
BRANCH ADDRESS :	1st Floor Rishab Complex, Argora Road, Ashok Nagar, Ranchi - 834002 Jharkhand.
NOTE- PAYMENT WILL BE ACCEPTED ONLY IN RTGS/NEFT/DEMAND DRAFT	

Civil Works

SR. NO.	Types of work	To Be Done By
1.	Boundary wall	Dealer
2.	Sale office, Toilet, Soil filling etc	Dealer
3.	(A)Sales office (B) 2 Washroom \ Toilet with Separate Entry For Ladies & Gents (C) Soil Filling in Pump Area \ RO	Dealer
4.	3 PHASE ELECTRICITY CONNECTION	Dealer

Required Inputs & Documents

SR. NO.	ITEMS	ITEMS
1.	Owner	Pan Card , Aadhar Card and two years of ITR receipt
2.	Photographs	6 passport size photo of owner
3.	Educational certificate	Matriculation certificate
4.	Firm account	Current bank Account No, Cancelled Cheque without date
5.	Property	Complete property paper diverted on commercial use
6.	Stam paper	Two stam papers with value of rs 1000 each
7.	If partnership	Partnership deed with details
8.	Firm	Firm GST No, Pan Card, Shop and Establishment Registration etc.
9.	Location	Video of site and current location



Price List

SINGLE DISPENSING UNIT		
SL NO	Specifics Of Projects	Amount(IN INR)
1	Application form	1,100.00
2	Site survey and Map layout charge	51,000.00
3	Dealership charge	2,400,000.00
4	Storage tank Qty-2	
5	Single dispenser with double nozzle	
6	Electrification charge	
7	(A) Installation of 2x20kl Tank in Earthpit Including Preparation of Tank Guard Wall. (B) Installtion of DU with Foundtion Work & Plastering (C) Connection of Pipeline From Tank to DU (D) Electrification Work For DU including Fitting Of ARMD FRLS Cable , Connection of CVT & 5 KVA Single Phase Servo Stabilizer (E) Installation Of 6 Pole & 6 LED Street Light (75 - 100 watt) (F) Installation of 3 Phase Electrical Panel System	
8	Totem(20FT height) & branding charge	2,452,100.00
GRAND TOTAL		



DOUBLE DISPENSING UNIT		
SL NO	Specifics Of Projects	Amount(IN INR)
1	Application form	1,100.00
2	Site survey and Map layout charge	51,000.00
3	Dealership charge	2,700,000.00
4	Storage tank Qty-2	
5	Double dispenser with double nozzle	
6	Electrification charge	
7	(A) Installation of 2x20kl Tank in earthpit including preparation of tank guard wall. (B) Installtion of DU with foundtion work & Plastering (C) Connection of Pipeline from Tank to DU (D) Electrification work for DU including fitting of ARMD FRLS Cable , Connection of CVT & 5 KVA Single Phase Servo Stabilizer (E) Installation of 6 Pole & 6 LED Street Light (75 - 100 watt) (F) Installation of 3 Phase Electrical Panel System	
8	Totem(20FT height) & branding charge	
GRAND TOTAL		2,752,100.00

CANOPY	
CHARGES APPLICABLE	
	Canopy Rs. 11,000/- Per Sqm (including)
1	Piller formation
2	Led light 100 watt 8 pcs
3	Electrical connection with cable
4	Speaker 4 Nos
Note- Company Logo Will Be Provided By The Company	



Comparative Sheet

COMPARATIVE EVALUATION OF HIGH SPEED DIESEL VS BIO FUEL

SR. NO	DESCRIPTION	HIGH SPEED DIESEL	BIO FUEL	REMARKS
1	Raw Materials	Crude Oil	Edible oil, Watse Oil	Limitless asset when contrasted with Crude Oil
2	Density at 15 Degree Celcius	820-830 Kg/cum	840-890 Kg/cum	Higher Density gives more nuclear power which brings about more power yield
3	Viscosity	2%	6% (3 times that of the crude oil)	It has multiple times greater thickness meaning thereby that it gives more grease to motor which brings about less wear and tear of rings and piston which diminishes motor commotion and vibration
4	Oxygen Content	0.5%	10%	Helps in complete burning of fuel, brings about increment mileage by 10-15 %
5	Acid Number	High Content	Low Content	
6	Carbon and Sulphur	High Content (Free carbon)	Nil (Free carbon)	Decreased Sulphar and free carbon contents . upgrades motor life and furthermore lessens pollution upto 70 %
7	Flash Point	50-60 degree celcius	120-160 Degree Celcius	Non Inflammable, Safe and out of explosive Act perview
8	GST Benefit	NIL	12%	Biofuel goes under GST review and useful to B2B clients
9	Calorific Value	10500- 11000 Kcal/kg	9800 - 10200 Kcal/	The amount of Heat produced on burning of 1 gm of fuel
10	Usage	All types of Automobiles, construction and mining equipments, DG Sets etc	All types of Automobiles, construction and mining equipments, DG Sets etc	Biofuel is completely replaceable with customary diesel without rolling out any improvement in automobiles and equipments
11	Cetane Number	40	47	Higher Cetane number help ensure good cold start properties and minimise the white smoke .





Star Bharat Bio Petroleum Pvt. Ltd.

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