



BIO OIL FRUIT

PAKISTAN (PVT LTD.)

The Next Generation Sustainable Fuel



A Unique Business Plan To Exploit The Opportunity Of 21st Century

BACKGROUND

The concept dates back to 1885 when Dr. Rudolf Diesel built the first diesel engine with the full intention of running it on vegetative source.

He first displayed his engine at the Paris show of 1900 and astounded everyone when he ran the patented engine on any hydrocarbon fuel available - which included gasoline and peanut oil. In 1912 he stated the use of vegetative oils for engine fuels may seem insignificant today. But such oils may in the course of time become as important as petroleum and the coal tar products of present time." Scientists discovered that the viscosity (thickness) of JATROPHA CURC AS oil could be reduced in a simple chemical process. This fuel is called Bio-Diesel.

Since then the technical developments have largely been completed. Plant oil is highly valued as Bio fuel "Diesel" and transformed into Bio Diesel in most Industrialized.

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- ✓ **Create Health Related Solution (insecticide, Antiseptic Cream And Soap) And Many More.**
- ✓ Farmers would earn from Jatropha.
- ✓ Small rural enterprises would sell or purchase the seeds.
- ✓ Small scale industries grow for oil production.
- ✓ Diesel fuel production would further provide business opportunity.

JATROPHA AS AN IDEAL PLANT FOR BIOFUEL PRODUCTION

It is often considered that a more effective extraction technique would yield greater qualities of oil. This is partly inaccurate, since an effective extraction method would only yield optimum quantity and not more than that.

The optimum oil content in Jatropha plant varies between species and genetics variant, climate and soil condition generally affect the yield of the oil as well. Prolong exposure of seed to direct sunlight can impair the oil yield considerably. This is usually done using different Jatropha oil extraction machines. Jatropha oil can be extracted from the seeds by two ways mechanically and chemically. It is necessary to mention here that, there is tremendous interest in Jatropha as a biofuel crop because of the final product the oil that comes from the seeds. It has excellent qualities to be used as a biofuel specifically to be used as biodiesel and as jet fuel."

The small trees produce green fruit, about the size of a ping pong ball. The fruit usually holds three seeds, which are removed and crushed by a press to extract the oil.

The raw oil itself has noteworthy qualities. "You could take the crude oil and put it in any diesel engine and it will work really well its amazing."

However, before the oil reaches engines, it undergoes TRANSESTERIFICATION, a process which cleans the oil and removes the Glycerin, which would cause buildup in engines. It is an inexpensive and efficient process that can operate in a small room.

"Once the Glycerin is removed from the oil, you have pure biodiesel. The oil produced from this process goes beyond the specifications that exist in the biodiesel industry and is considered premium fuel. The Glycerin byproduct can be sold to pharmaceutical or cosmetic companies.

The oil can be used by diesel engines and is also ideal to be mixed with jet fuel due to its stability at low temperatures.



This **JATROPHA OIL** can be used as it is crushed i.e. - unrefined in the engines of cars or for any other engine.

This **JATROPHA OIL** can be refined and sold as pure diesel. Refined it can be exported as a clean fuel to anywhere in the world.

It is an alternative fuel that can be used in diesel engines and provides power similar to conventional diesel fuel. Bio Diesel is a renewable domestically produced liquid fuel that can help reduce the countries dependence on foreign oil imports.

Jatropha is a plant whose seeds produce oil so pure, you can practically pour it right into the tractor which plowed the land. The Jatropha plant is a candidate for future biofuel production a hardy small, drought - resistant tree that produces seeds containing oil suitable for premium biofuel production.

Recent environmental and economic concerns have prompted resurgence in the use of biodiesel throughout the world. In 1991, the European Community, (EC) Proposed a 90% tax reduction for the use of biofuels, including bio diesel. Today, 21 countries worldwide produce Biodiesel.

HOW IS BIODIESEL MADE?

Biodiesel is made through a chemical process called TRANSESTERIFICATION whereby the glycerin is separated from Jatropha oil. The process leaves behind two products methyl esters (the chemical name for biodiesel) and glycerin (a valuable byproduct usually used in soap and other products) to make a long term business opportunity, attention must be given to the critical issue of availability of the right feedstock at the right cost. Jatropha and other nonfood feedstock will be a vast source of biofuel and a key to reducing our dependence on fossil fuel (i.e. diesel from crude oil).

THE ADVANTAGES OF BIO DIESEL

- ✓ Bio Diesel is the most valuable form of renewable energy that can be used directly in any existing, unmodified diesel engine.
- ✓ Bio Diesel is environmental friendly and ideal for heavily polluted cities.
- ✓ Bio Diesel extends the life of diesel engines.
- ✓ Bio Diesel is cheaper than mineral oil diesel.
- ✓ Creation of employment for millions of souls.
- ✓ Increase provision of food through intercropping.
- ✓ Biodiesel can be used for generation of power, for cars, generators and for cooking.



JATROPHA BIODIESEL FARMING BUSINESS PLAN

Jatropha Biodiesel Business plans preparation needs expertise, a better understanding of how to prepare, analyze and interpret financial statements. Therefore, the BIO OIL FRUIT PVT LTD. (BOF) has formulated various business plans from farming to fuel based on its extensive experience and knowledge.

BIO OIL FRUIT PVT LTD (BOF) is working the worldwide promotion of jatropha that designs and implements the growing of jatropha curcas crops in a structured Agri-Supply chain. Value additions of jatropha Provide support/services from "Soil to Oil" for development and establishment of the biofuel crop.

So if you wanted to be successful in the biodiesel industry, you need a perfect plan to know important factors. A business plan should be well-prepared because this is the backbone of your company. It needs time & proper attention to set every detail in your business plan.

Biofuels' exciting growth prospects have drawn in investors Well-known/new entrepreneurs are pushing into the sector Just to facilitate we have introduced Jatropha Biodiesel farming business plans. From farming to fuel based on our extensive experience and knowledge keeping in view the fact that "Those who fail to plan, plan to fail"

For example,

A Jatropha plantation in 10,000 ha can be summarized as below

Land area: 10,000 ha

Crop yields: 87,500 tons

Biodiesel Production: 10 million gallon per year

With an investment of \$15 million, Sales of \$ 24 million can be planned with a net profit of around 45%

Following steps are required to be taken in order to create JATROPHA FUEL FARM after determining land availability

Feasibility study Report

Formation of Business Plan

Appointment of Consultant

Farm Designing

Execution of Plantation

Crop care

Mission

A Step Towards Elimination Of Poverty Through Biofuel For Bringing Revolution In The Lives Of Local Farmers.

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