

A PROJECT PROPOSAL

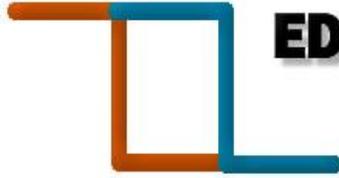
Jatropha Curcas Plantation in Cameroon

A project for the realization of an Agro-energetic farm in Cameroon for the cultivation of Jatropha Curcas, the extraction of oil, the exportation and the marketing of the panel.



Presented by:

 **EDOCAM AND SONS COMPANY LTD**
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The Project

EDOCAM AND SONS COMPANY LTD wish to propose a project for the realization of an agro-energetic farm which deals with the production of Jatropha Curcas oil and panel to use as natural fuel.

The project is elaborated on the bases of feasibility studies conducted on the field two years prior to commencement.

This project is addressed principally to institutions interested in investing in an agro-energetic business in Africa so as to satisfy its need of natural fuel, for example the city councils or industries.

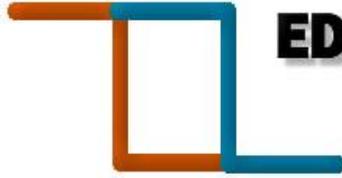
The complete project will be made available to interested institutions which will then be referred the following:

- more information on the Jatropha Curcas
- the phases of the project
- my Curriculum Vitae

Introduction

The project takes into consideration sustainable development.

The project is addressed to European investors, who for their high social fall back in terms of social and economic development, besides the "entrepreneurship", can also be retained to be "humanitarian".



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G8

In the document undersigned by the Heads of State and of Government officials in the last G8 held in Aquila from the 8th to 10th July 2009, it is decided: Agriculture and food safety are at the centre of the international diary. The production of renewable organic waste energy has to be increased in a sustainable size by a balanced combination of the requests of the energetic policy with the agricultural production, in a way as to supply a response to our energetic needs, economic needs, environmental needs, agricultural needs and, at the same time, without compromising the food safety. The policies have to encourage a production and a consumption of natural fuel sustainable with the environment, promoting the advantages and removing every potential risk that may affect the above needs, with a strong attention to the development and to the marketing of the second generation natural fuels, according to the directives of the declaration of the high level Conference on World Food Safety in June 2008.

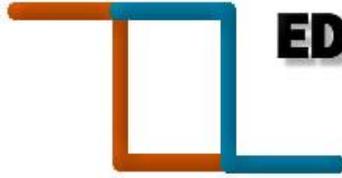
Kyoto Protocol

In the Kyoto protocol, engagements were taken to reduce gas emission responsible for the green house effect. To attain this objective countries have resort towards renewable energetic source and in particular, the agricultural cultivation for the production of natural fuel.

Particular attention is focused in the cultivation of the Jatropha Curcas, because its oil does not involve the production of polluting gases.

The identification plan

- a) The reduction of the uncontrolled exploitation of the energetic resources for domestic use.
- b) The development of agricultural cultivation, in the semi-arid areas or in land with poor organic substances situated in the poor regions of the country, for energetic reasons;



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c) Survey the organic waste on the international market to be destined for the production of organic fuel.

Agro-energetic farm

An agro-energetic farm has the objective of increasing the value of renewable energetic sources such as the organic wastes, on the bases of their knowledge and up to the value of their energetic power.

An agro-energetic farm that respects the environment, the economy, and the population:

1 - Does not compete with food stuff cultivation;

2 – Intervenes in economically worthless areas;

3 – Cohabits with different economic platforms; after haven produced the main benefit of the company, its activity then favors the relapse of the society directed towards the social and economic development of the agricultural areas,

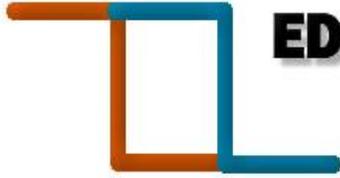
Which have the following advantage;

a – The conservation of jobs which are at risk because of the crisis that the different agricultural sectors suffer (in particular cotton, coffee and cocoa);

b – The creation of new jobs;

c – Repopulating the rural environments;

d – The reduction of deforestation caused by the production of coal.



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JATROPHA CURCAS

The plant

The Jatropha Curcas is a plant which is perfectly compatible with the environmental condition of Cameroon. It is used for enclosing agricultural cultivation for protecting them from animals. It is worthwhile adding that animals do not eat the plant. The leaves and the fruits of Jatropha Curcas are not edible for humans. The plant has a life span of over 40 years and reaches a height of above 5 meters.

Already from the first year it produces results; after it produces 1,155 Kg of seeds the first time, it then produces 2.31 Kg of seeds the second time and 3.75Kg of seeds the third time, until it reaches maturity. It is simple to handle.

Other uses of the Jatropha Curcas plant in the world.

(The information in this section is widely derived from the Purdue University- Center for New Crops and Plants Products website).

Leaves

The young leaves are definitely edible if boiled. The crushed leaves are applied in the eye lid of horses as repulsive agent to send away flies since it contains cyanide (HCN).

Flowers

The specie is considered mellifera.

Nuts

In some cases the nuts are roasted and eaten, even if they are notably purgative. The nuts can be made to burn like candles



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Seeds

The seeds are used as contraceptive in Sudan.

Coloring can be extracted from the seeds

In some regions of the Mexico (in Misantla, near Veracruz) the seeds are appreciated as food, they are boiled and then toasted; it is not certain if the treatment reduces the toxicity, or if instead it deals with a selected variety for a natural toxicity.

Roots

The ashes of the roots are used as natural flavoring in place of salt.

Bark

Used as poison to stun fish.

Latex

Strong inhibitor of some vegetal viruses

Lymph

Stains materials. At times used to mark material for design.



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Bushes

The Mexicans grow bushes to put up insects of the lacquer, which is used in medicine as liver protector and as reducer of appetite (antiesterification instead produces the normal combustible biodiesel).

The oil extracted from the seeds of Jatropha can be further used as kitchen combustible, used for illumination, used to produce lubricant, soaps, detergents, bathroom oils, softener; it is also used to adulterate vegetable oils of superior cost.

The panel

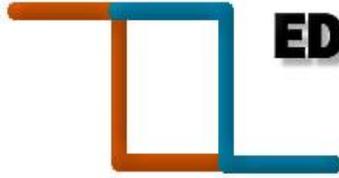
According to the extraction of the oil, from a ton of Jatropha seeds, beyond 650 tons (65%) of wooden panels are obtained, with a caloric strength of 4500Kcal, which can be used as an alternative combustible to coal, either in domestic or industrial use. Besides, the panel constitutes an optimum fertilizer

THE PHASES OF THE PROJECT

First phase

A – Availability of the Jatropha Curcas seeds

3.700.000 seeds of Jatropha Curcas will be purchased from one area in order to assure the homogeneity and they were appropriately dried to be better conserved.



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B – Realization of the nursery

A nursery of 2 hectares will be realized, where 5000 seedlings will be planted. When they will be transplanted, they will cover a required land of 2 hectares for the plantation, with a yearly production of 30.000.000 seeds of *Jatropha*, equivalent to 18.750 hectares of plantation.

The seedlings will be ready after 9 months

This phase will require the services of:

1 person responsible for works for the proceedings of the nursery

1 farmer

5 seasonal day laborers

C – Realization of the plantation for the production of seeds

ALREADY OPERATIVE PHASE

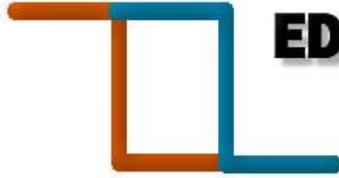
A plantation of 2 hectares will be realized. In each hectare will be planted 2500 plants of *Jatropha Curcas*, for a total of 5000 units. They assured the following availability:

First year each plant produces 1,2Kg, equivalent to 6000 hectares of ordinary plantation (1600 plants per hectare);

Second year each plant produces 2.4 kg, equivalent to 12.000 hectares of ordinary plantation (1600 plants per hectare);

Third year each plant produces 3,75 Kg, equivalent to 18.750 hectares of ordinary plantation (1600 plants per hectare).

From the first year the ordinary plantation will assure the autonomy in the production of seeds that are necessary for all the phases of the definitive plantation.



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D – Agreement of the contract of partnership

A contract of partnership will be stipulated between.....and the Ministry of Agriculture, of livestock, Fishery and animal husbandry with the aim of facilitating the availability of large agricultural surface area, with a long term lease, assigned for the realization of 15.000 hectares of Jatropha Curcas plantation in order to produce:

-Jatropha Curcas oil assigned for exportation

-Jatropha Curcas panel to be used at a local level, in substitution of domestic or industrial coal or assigned for exportation

The lands will be traced with a lease ratified by the Ministry in charge, of the duration of 30-50 years, and at an estimated cost of 45€/hectare. Consequently, the annual cost of the plantation rent is estimated at € 675.000.

The accord of partnership invites the Ministries in charge to sustain the project to also get involved under the occupational profile.

Second phase

A – Constitution of the company.

The company will be constituted of capitals and of international rights which will manage the realization of the project. The company will operate as if it were in its home country, that is to say taking advantage of the advantages of a foreign business operating in a community(here are some of them)

-Importations of machineries and tools without the payment of duties;

-Exportation of the products without tie ups;

-Fiscal

facilitations



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This phase foresees a cost of € 10.000 (movements, consultant expenses, editing the constitutional act of the company, notary expenses, legal consultancy, court registration, presentation dossier, bank accounts, etc)

This phase foresees the employment of 20 employees:

1 development manager

1 logistic manager

1 agronomist

1 engineer

1 driver

1 administrative personnel

1 accountant

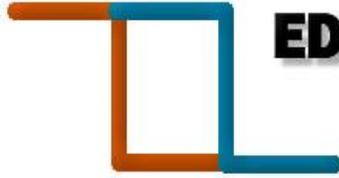
13 employees assigned to carry out general tasks.

B – Subscription of the rental contracts of the lands of the plantation.

The lands to realize the plantation will be put at disposition by the private agricultural proprietors or by their institutional representatives at all levels, such as the councils, village agricultural community. The contracts will be ratified by the competent Ministry to assure its due respect.

C – Purchase of machinery for fulfillment of plantation

Used machines will be purchased in Europe for the realization of works in opening of roads and leveling agricultural surfaces.



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The following structures will be realized: 6000mq of industrial building on plot of 10 hectares for the extraction of oil and garage for all the vehicles.

It is foreseen the employment of:

- 50 drivers
- 50 employees as staff of the construction site
- 10 mechanics for maintenance and repairs

D – Training of agricultural trainers

Courses will be instituted for the training of the staff employed to take charge of the agricultural training, for the training of the agricultural employees.

During the phase of proceedings of the first 5000 hectares, the training staff of the agricultural employee will be on training. It is foreseen the employment of:

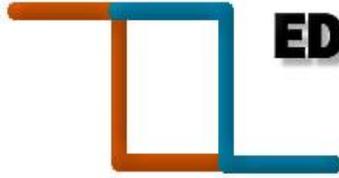
- . 1 agriculturist
- . 25 trainers

Third phase

Realization of a plantation of 15.000 hectares of Jatropha Curcas plant.

The plantation will be developed in units of 5000 hectares per year and in the period of 3 years.

The necessities for such a plantation will be the following. Considering to plant 2500 plants per hectare, there shall be planted a total of 37.500.000 plants.



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The supply of suitable and recent seeds to be put under culture and successively to be transplanted in the plantation will be assured by the production of 12 ordinary plantations.

A – Realization of the first tranche of plantation: 5000 hectares.

The first year will yield the first tranche of plantation which corresponds to 5000 hectares.

Tranche

Every plantation tranche will be made up of 5000 hectares and will regroup 33 groups of plots, each of them made of 25 plots, for a total of 833 plots of plantation.

For every plantation tranche there will employment and training of 33 agricultural supervisors.

Plot

Every plot will be made up of 6 hectares of plantation and it will employ a responsible farmer for an unspecified period.

The farmer employed in the plot will be responsible:

- For the surveillance of the plantation
- For the realization of the nursery for the cultivation of the seedlings (9600) to be transplanted in the appropriate plantation (6 hectares), including the irrigation.
- For the counting of the plants
- For cutting the branches in due course (only in the first year, to thicken the plant)
- For the conduction and maintenance of the plantation (cleaning of the weeds, replanting of the dead plants)
- For maintaining and cleaning the tracts leading to the plantation
- For the harvesting, cleaning and parceling of the Jatropha seeds.
- For the enlistment and coordination of seasonal laborers when necessary.



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The farmer can cultivate in the modality known as intercropping, between the lines of Jatropha, with respect to the training received from the trainers and from the undersigned contact.

The farmer of the plot will receive an agricultural supply:

-10 hoes

-10 machetes

-2 pairs of plantation slippers (constructed with pneumatics)

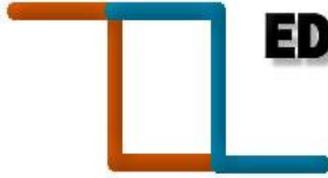
-2 agric wheel-barrows

Grouping of plots

Every grouping of plots will be coordinated by a supervisor, who will have the duty of training, surveying the farmers responsible for the plots and coordinate them with their activities. The supervisor will function as an interface between the personnel responsible for the plantation tranche and the personnel responsible for the plot. Every supervisor will take care of 25 plots, corresponding to 150 hectares of a tranche of plantation. The supervisor will be trained by trainers of the project.

Transplanting the seedlings

For every plantation tranche there will be engaged 2.500 seasonal laborers who will have the duty of transferring the seedlings from the nursery to the plantations.



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Harvesting of Jatropha grains

From the second year of the transplant (that is to say from the third year of start up of the project) of the jatropha seedlings, during the period of harvest the manager of the plot will have to individually go in for the harvesting of the seeds. An employee can harvest 30Kg an hour.

From the third year of the transplant(that is to say from the fourth year of start up of the project)of the Jatropha seedlings, in the months of July and September every plot made up of 6 hectares of plantation, besides the personnel manager of the plot, will use more than 1 seasonal laborer * 3 months.

During the first year of harvest, in every tranche of 5000 hectares of plantation there will be a total of 1.666 seasonal laborers.

All the agricultural personnel used (permanent and seasonal) will have to separate the grains from the berry, to treat them according to the training received, to package them and put them at the disposition of the transporter of the farm. The program of collection of the grains will be coordinated by supervisors and the transportation will be done with the agro-energetic farms' means of transportation.

B – Realization of the second tranche of plantation: 5000 hectares

The second year will be realized the second plantation tranche and corresponds to 5000 hectares surface land, to the same conditions with which the first tranche was realized.

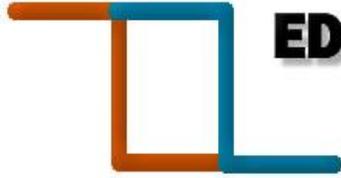
Employment and training of 33 agricultural supervisors.

Employment and training of 833 farmers.

Agricultural supplies for 833 plots.

Transplanting seedlings with the use of 2.500 seasonal laborers.

Harvesting of the grains of Jatropha with the engagement of 833 seasonal employees in the Second year of production and of 1.666 in the third year.



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C – Realization of the third plantation tranche: 5000 hectares

The third plantation tranche will be realized in the third year and it corresponds to 5000 hectares of surface land, given the same conditions to which the first and the second plantation tranche were realized.

Employment and training of 33 agricultural supervisors.

Employment and training of 833 farmers.

Agricultural supplies for 833 plots.

Transplanting of the seedlings with the use of 2.500 seasonal laborers.

Harvesting of Jatropha grains with the engagement of 833 seasonal employees in the second year of production and of 1.666 employees in the third year.

Fourth phase

Realization of the press for the extraction of the oil and the production of panel.

The farm will carry out the extraction of 4 ton/hour of Jatropha oil and also the manufacture of the wooden panel

Will have to be employed

.30 drivers

.20 employees for installation

.10 employees

.2 watchmen

Social relapse in terms of new job offers

The salary scale applied is that in vigor in Cameroon.

Calendar secretaries and employment.

The first year will involve the use of, permanent, 158 employees and 5 seasonal workers.

The second year will involve the use of, permanent, 1024 employees and 2500 seasonal workers.

The third year will involve the use of, permanent, 1920 employees and 833 seasonal workers.

The fourth year will involve the use of, permanent, 2743 employees and 2449 seasonal workers.

The fifth year will involve the use of, permanent, 2743 employees and 4998 seasonal workers.

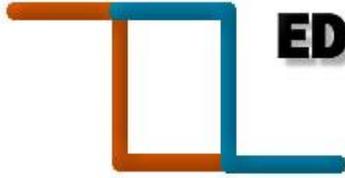
The sixth year will involve the use of, permanent, 2743 employees and 6664 seasonal workers.

From the seventh year there will be permanent secretaries, 2743 employees and 7497 seasonal workers.

Production of the Agro-energetic farm

Production seeds per hectare (1600 plants);

- First year = 2.4 tons of seeds;
- Second year = 4.8 tons of seeds;
- Third year = 6 tons of seeds.



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Seeds

1st year ton 0

2nd year ton 0

3rd year tons 12.000

4th year tons 36.000

5th year tons 66.000

6th year tons 84.000

7th year tons 90.000

8th year tons 90.000

9th year tons 90.000

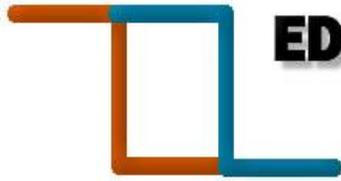
10th year tons 90.000

11th year tons 90.000

12th year tons 90.000

Total Tons 738.000

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Oil

1st year ton 0

2nd year ton 0

3rd year tons 3.960

4th year tons 11.880

5th year tons 21.780

6th year tons 27.720

7th year tons 29.700

8th year tons 29.700

9th year tons 29.700

10th year tons 29.700

11th year tons 29.700

12th year tons 29.700

Total Tons 243.540



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Panel

1st year ton 0

2nd year ton 0

3rd year tons 8.040

4th year tons 22.110

5th year tons 42.210

6th year tons 54.270

7th year tons 60.300

8th year tons 60.300

9th year tons 60.300

10th year tons 60.300

11th year tons 60.300

12th year tons 60.300

Total Tons 488.430

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Net profit

1st year € -338.435

2nd year € -887.411

3rd year € 1.412.400

4th year € 4.178.830

5th year € 7.709.910

6th year € 9.828.510

7th year € 10.593.000

8th year € 10.593.000

9th year € 10.593.000

10th year € 10.593.000

11th year € 10.593.000

12th year € 10.593.000

Total Profit € 85.461.804

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