

Report for the Farmers' Clubs Program

For the period January to August 2013

ADPP GUINEA BISSAU



THE GAIA MOVEMENT

Name of the project: FARMERS CLUB
Organization: ADPP GUINEA BISSAU
Report period: JANUARY TO AUGUST 2013

Introduction'

The project 'Renewable energy for local Development in Bissora' is project which has a component of Jatropha as the main part. The project has been planting jatropha since 2010 in the form fence to prevent the entrance of animals into the fields. On the same place it has been discovered that Jatropha can also be extracted oil which can be used in different machines. Such being the case with the minimum experience in Jatropha from Mozambique, ADPP is implementing the program in collaboration with the European Union who have funded the renewable energy project, whereby different types machine have been bought that will be using the generators working on Jatropha fuel, therefore it is one of the main challenges that ADPP will need to solve and find solution urgently and needs to strengthen its partnership with Gaia Movement for the success of the Jatropha project .

Project activities:

1. Workshop for the community leaders in environmental activities

The project carried the training with the project leaders who are working hand in hand and should to shoulder with the farmers in different activities including Jatropha. The main points treated in the training was about to organize and grow jatropha in order to conserve the environment. In the training 16 project leaders for farmers club, 4 project leaders for community activities and 3 technicians participated actively in the training. Also the demonstrations and the characteristics of how to identify the maturity of the jatropha seeds was shown, and all the project leaders were able to explain during the group discussions. The trained was carried out in the month of April.

2. Training of the farmers in Jatropha harvest

After the training of the project leaders there have been an on going training sessions among the farmers in all the 52 clubs in the 24 villages where the farmers are convinced on the characteristics of the matured seeds and how to take care of them in order to maintain there quality of the seeds. The training sessions have reached all the 52 clubs.

3. Training of then project staff by Carlos an Agronomy on how to plant Jatropha and soil analysis

In the month of March from 18 to 22 of March we had a visit by the Agronomist from one of the Italian NGO working also on Plant oil in Guinea Bissau and having their analysis colledge in Geneva. He worked with our project staff members for the period of 5 days where, he worked on the issue soil analysis for the production of Jatropha. We also visited one of the piece of land owned by ADPP where it was being suggested to open a plantation for Jatropha. While on his visit he also taught our staff on the importance of jatropha on the envirement aspect, where it was explained that jatropha does not degrade the soil if it seeds are used as the planting materials. This information helped in clearing out the myths and misconceptions that alot of people in Guinea Bissau have had. Among others the following advantages of jatropha were discussed :

1. Jatropha production can reach to 8 tons per hectare if irrigation system is applied, and without irrigation can reach 3 tons per hectare.
2. Jatropha can also be used as a medicinal plant starting from the leaves to thew roots.
3. He also mentioned that the word Jatropha came from the *greek word jatras and Trophe* which means Medicinal plant.
4. We were also inspired to hear that in India there are alot of jatropha plantations and are using alot of bio fuel than fossil fuel.

4. Training of the project staff about Jatropha and economic aspect of it by the Consultant Hugo

In the month of May we also received a consultant by the name of Hugo from Mali who carried out training for full five days where the following activities were realized,

1. Calculation for the quantity of jatropha seeds which will sustain the seven production centers,
2. Cultivation systems in order to achieve the goals.

3. Ways to be used in order to manage the right seeds quality.
4. Price of 1 kilogram for jatropha in Guinea Bissau as compared to the price in Mali.
5. Profit and loss spread sheet, where it was shown on how the plantation for jatropha can be made in accordance to the need we have.

4. Training of Vocational school student in Jatropha Management

On 16th and 17th of the month of May, immediately after the jatropha training by the project staff, there was training to 22 vocational school student, 2 Agricultural teachers and 2 development Instructors, on both practical and theoretical understanding of the jatropha plant. The training was conducted at vocational school. The objective of the train was to empower the vocational school student and give enough knowledge in jatropha aspect including the toxic of the jatropha so that they can take the right information to the farmers during implementation of the program concern jatropha from planting until seed conservation. The main areas of the train were:

- Establishment of jatropha from morphology of plants, where jatropha can be planted including all technology of jatropha production.
- Toxicity of the jatropha - the students have been trained the all aspects concern the toxicity of jatropha whereby we listed all risks and solution when any one get an accident of the jatropha since the project is pilot in the area.
- Community mobilization, the student have trained on how to mobilize and sensitize the community in such a way that, the community understand the program and why we have to plant jatropha based on all the benefits.
- Nursery bed making, the students have been trained on how to prepare nursery bed for jatropha in an economic way that we do not spent money on propagation. While on the same the students have learned the importance of group work in environmental issues.

CAMPAIGNS ABOUT JATROPHA PLANTING

- After the training, there has been an active campaign on jatropha planting in the 52 Farmers clubs, where the students were divided in groups of two in two, and were dispersed in all the all clubs from 18th of May.
- The campaign went through 1st of June, where 52 nursery beds were made in the clubs with an average of 4500 seedlings. And at Vocational school 1 nursery bed was produced with 16000 plants.
- After that we had individual farmers who were also sensitized and came to take the seeds for direct sowing. In total we had 304 000 seedlings, the survival rate has been of 20%, which resulted to about 250,000 plants surviving.

TRANSPLANTATION OF THE JATROPHA TREES

- The transplanting of the seedlings started immediately after the plants reached the height of 20 centimeters, from the first of July.
- On 1st of July the tree planting day was launched in the village of Quere where a model field for jatropha was established with 45 trees, planted in a distance of 2 meter X 2 metres in triangle system.
- By the 26th of August we had 175000 Jatropha plants transplanted into their definite places.

TRAINING ABOUT CONVERSION OF ENGINES TO WORK ON JATROPHA OIL

- 10 Members of staff were trained in how to convert the diesel engines to work on Jatropha fuel, the training started on 26th of August and finished on 1st of September.
- 8 Generators were converted and now works on plant oil
- Different Kits have been bought to secure that the generators will have guarantee.

MONITORING AND EVALUATION OF THE ACTIVITIES

- Monitoring and evaluation of the project activities is a daily work where different tools are used to secure that there is good implementation of the activities.
- Also there are ways how to solve some problem encountered during the implementation of the activities, through meetings with different project staff members.

The effects of the project activities:

From the project implementation the following effects/ changes can be observed:

1. Project leaders have understood the importance of jatropha plant since the morphology and the uses.
2. Community leaders have also taken an active part in mobilizing the farmers in the plantation of the jatropha plants.
3. 53 Nursery beds have been produced and transplanted
4. Vocational school student have understood the concept about the jatropha and the economic importance of it.
5. Community in general have been mobilized and understood the jatropha importance, the increased the effort.
6. 10 staff members have been trained about the Jatropha plant morphology and how to convert the generators to work with bio fuel including all types of plant fuel.

Attachment 1: The Project in Numbers

Farmers club in Guinea Bissau Oio region	Planned January- to August 2013	Achieved January- to August 2013	Difference between achieved and Planned
N° of Clubs to plant Jatropha	52	52	
N° of plants planted this year	150000	175 000	+25000
N° of people per club involved in Jatropha production	520	700	+180
N° of nurseries planned in the clubs	52	53	+1
N° of trainings about use of Jatropha seeds and importance and Conversion of the systems	2	2	0
COMMENTS: We have made the planting materials for 304 000 plants that we are sure of having the plant population of live plants, equal to over 250000.			

Attachment 2:



Jatropha training to the Project staff by the Consultant from MBAS



Field visit by the consultant and the project staff during the training



Jatropha planting by using the new methods of jatropha planting



The Vocational school student working hand in hand with the community after getting the training



During the distribution of the material in the community



Jatropha nursery in a community



Planting jatropha as garden fence



Planting jatropha with extended spacing



Planting jatropha in-between crops



Nursery in a Farmers Clubs Energy Club



Farmers planting out



Seeds being harvested from grown up plant in fencing

Attachment 4: plan for the next 4 months

The following are some activities for the next 6 month:

- ✓ Continuous with transplanting of trees
- ✓ Harvesting of jatropha seeds
- ✓ Pressing Jatropha oil
- ✓ Refining the Jatropha oil
- ✓ Conducting the oil quality test