



KENYA FORESTRY AND RESEARCH INSTITUTE
KITUI REGIONAL RESEARCH CENTRE

**Stakeholder Training on Tree Nursery Establishment and Melia
Propagation at Operation Mwolo Out Programme (OMO) - Yatta**



TRAINING REPORT
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1.0 Introduction

Stakeholder training has been one of the ways of disseminating information to many people as this involves training of organized groups. These groups train others and through this many other people also get trained.

Operation Mwolyo out is a Non Governmental Rrganization which covers lower Yatta District.

Its mandate is to assist communities in:

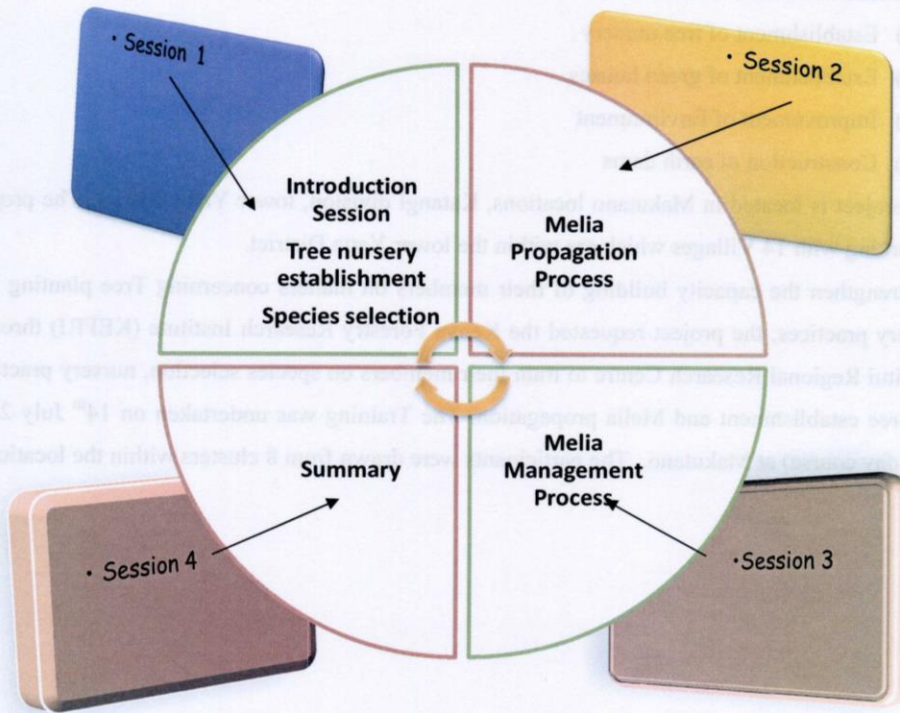
- 1) Establishment of tree nursery
- 2) Establishment of green houses
- 3) Improvement of Environment
- 4) Construction of earth dams

The project is located in Makutano locations, Katangi division, lower Yatta district. The project is working with 14 Villages which are within the lower Yatta District.

To strengthen the capacity building of their members on matters concerning Tree planting and nursery practices, the project requested the Kenya Forestry Research Institute (KEFRI) through its Kitui Regional Research Centre to train their members on species selection, nursery practices and tree establishment and Melia propagation. The Training was undertaken on 14th July 2011 (one day course) at Makutano. The participants were drawn from 8 clusters within the locations.

1.1 Program

Below is the program for the one day training



1.1 Objectives

The objective of the training was to equip farmers with skills to raise seedlings for the purpose of improving standard of the farmers within the project area. The specific Objectives were:

- 1) Participants to learn about tree nursery establishment
- 2) Participants to learn about the appropriate tree species selection for planting in their area
- 3) Participants to learn more about Mukau propagation process
- 4) Participants to learn techniques of planting Mukau in the field and management

Participant's expectations included the following:

- 1) To acquire knowledge on tree nursery establishment
- 2) To get knowledge on the best species which can planted in their area
- 3) Melia propagation process

2.0 Activities

2.1 Establishment of a tree nursery

Site selection is important and the following factors where explained/discussed

- Availability of water
- Availability of good soil
- Accessibility of the site
- Market potential
- Availability of labour
- Selection of species highly demanded

2.2 Suitable tree species for dry lands

Various species as listed below where discussed in terms of the products, ecological requirements and advantages and disadvantages.

1. *Sena siamea*
2. *Azadiratch Indica*
3. *Terminalia brownii*
4. *Acacia tortilis*
5. *Acacia geradii*

6. *Acacia nilotica*
7. *Grevillea robusta*
8. *Croton megalocarpus*
9. *Jatropha circus*
10. *Melia volkensii*

2.3 Propagation

The two types of propagations were discussed i.e. vegetative and through seed. Propagation/sowing techniques were also demonstrated including the various media, disease and pest protection mechanisms.

2.4 Planting

Recommended hole size for normal planting is 45cm x 45cm and moisture enhancement. Structures are recommended to improve survival rate include micro catchments, Ploughing, mulching, terracing and watering where also discussed as main measures to enhance tree survival.

For planting melia the participants were advised not to construct water micro catchments to avoid water logging around the tree. Watering should be done when necessary.

3.0 List of the participants

No.	Name	Cluster	Location
1.	Stanley Muema	Makutano	Kinyaata
2.	Stephen Mwangangi	Makutano	Kinyaata
3.	Mary Kiio	Makutano	Kinyaata
4.	Grace Kilonzo	Makutano	Kinyaata
5.	Mweu Ndeto	Katituni	Kinyaata
6.	Mulandi Kathili	Katituni	Kinyaata
7.	Enock Kimeu	Kikesa	Kinyaata
8.	Ester Mutuku	Maiuni	Kinyaata
9.	Loise Mutuku	Maiuni	Kinyaata
10.	Mutua Nzioki	Maiuni	Kinyaata
11.	Senge Mukutha	Maiuni	Kinyaata
12.	Mbithe Kimii	Maiuni	Kinyaata
13.	Raphael Musavi	Maiuni	Kinyaata
14.	Raphael Kiilu	Maiuni	Kinyaata
15.	Fransiscah Munyasya	Myumbuni	Kinyaata
16.	Tabitha Peter	Maiuni	Kinyaata
17.	David Musau	Ngangani	Kinyaata
18.	Margaret Kameti	Ngangani	Kinyaata
19.	Irene Musili	Makutano	Kinyaata
20.	Milcah Muasya	Makutano	Kinyaata
21.	Anna Mwangangi	Makutano	Kinyaata
22.	Anna Samuel	Kikesa	Kinyaata
23.	Agnes Mulinge	Makutano	Kinyaata
24.	Anna Mulwa	Makutano	Kinyaata
25.	Mbula Ngoki	Makutano	Kinyaata
26.	Naom Kimeu	Makutano	Kinyaata
27.	Lydia Kioko	Maiuni	Kinyaata
28.	Phobe Mutisya	Makutano	Kinyaata
29.	Alice Kathiu	Makutano	Kinyaata
30.	Christine Mutua	Ngangani	Kinyaata
31.	Daniel Munyao	Ngangani	Kinyaata
32.	Esther Musyimi	Ngangani	Kinyaata
33.	Katee Kimiti	Maiuni	Kinyaata
34.	Eunice Muusi	Ngangani	Kinyaata
35.	Joginah Nzusyo	Kikesa	Kinyaata
36.	Simon Nzioka	Kalukuni	Kinyaata
37.	Dorcas Mwaluko	Katituni	Kinyaata
38.	Ndulu Kasina	Katituni	Kinyaata

39.	Agnes Kimeu	Makutano	Kinyaata
40.	Mutua Wambua	Makutano	Kinyaata
41.	Philiph Mutua	Makutano	Kinyaata
42.	Robert Katiwa	Ngangani	Kinyaata
43.	Mutuku Musuu	Ngangani	Kinyaata
44.	Munyiva Musau	Makutano	Kinyaata
45.	Alice Kavulu	Makutano	Kinyaata

4.0 Different plates for the training activities



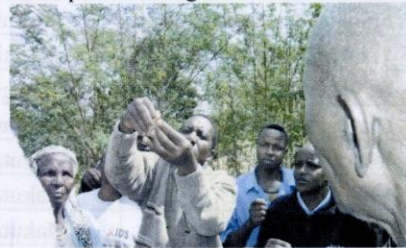
Introduction session



Participants looking at mukau seeds



Participant being shown how to do nipping



participants being shown how to do slitting



Participants nipping Mukau seeds



participant digging a seed bed



Putting sand in the seed bed



Seed bed now ready for planting