RECAP FOR THE FIELD TRIP

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AGENDA

INTRODUCTION

SOKOINE UNIVERSITY OF AGRICUTURE

PLANTATION

TREE NURSERY

NELSON MANDELA AFRICAN INSTITUTION OF SCIENCE AND TECHNOLOGY

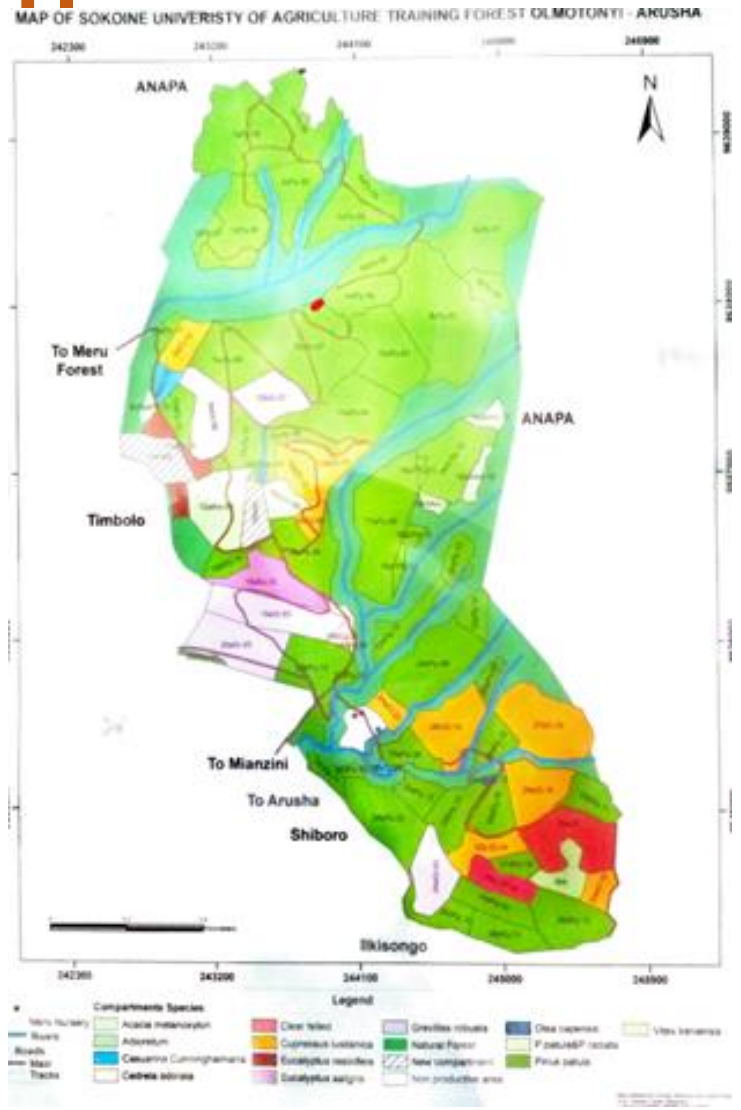
Field trip to SUA FOREST TRAINING INSTITUTION-OLIMOTONYI

- **Mr. Said salum kiparu** the campus manager welcomed us and give a brief about the campus.
- The participants visited the plantation which is situated on 140 hectares of land of which 80% is a manmade forest and 20% still a natural forest.
- Species included: Pinus caribaea, Grevillea Robusta
- The manager explained the role of the plantation including training.
- He explained the silviculture practices employed e.g pruning, thinning

Field trip to SUA FOREST TRAINING INSTITUTION-OLIMOTONYI

Objective of the institution were;

- ✓To provide practical training and other forest related courses
- ✓Sustainable supply of forest product
- ✓To maintain water catchment, soil protection and stabilize the microclimate of the environment
- ✓To adopt environmentally friendly forest operations like logging operations



Field trip to SUA cont……

- The forest consist of 140 ha where by 80% is plantation and 20% is natural forest
- 9 different type of species have been planted which are;

No	Species	Area coverd	Parcentage
1	*Pinus patula*	435.1	63.6%
2	*Grevillea robusta*	56.5	8.3
3	*Cupressus lusitanica*	56..8	8.3%
4	*Eucalyptus spp*	41.5	6.1%
5	*Accacia melanoxtlon*	29	4.4%
6	*Olea capensis*	26.2	4%
7	*casuarina cunningamia*	19.1	2.8%
8	*Vitex keniensis*	12.9	1.9%
9	*Cedrela ordorata*	4.1	0.6%

Field trip to SUA cont……..

- The forest annual allowable cut is 13,983 M^3/ Per year

- The first plot visited planted two type of species

✓*Gravilea robusta* which has got 30 years (has reached the pick of rotation age).

✓*Pinus Patula* which has got 9 years and was planted 2014. The rotation age of *pinus patul* is 18years

✓All species has been planted by spacing of 3X3

Field trip to SUA cont……..

❑Visited Narok view point

- ✓From this point you can view 75,% of the forest
- ✓Mount Meru view
- ✓Taungya system is forest managment system whereby community are initally allowed to cultivate land for agriculture crops for at least 3 year and leave the plot after tree canopy closure'
- ✓The size of plot given to community are 400m^2 and are charged 20,000/ Tsh equal to 8.3 $

Field trip to SUA cont……..

» **Why they charge community?**

Because they want to increase state of ownership

❑**It was observed that community are competing for this land because of;**

✓Scarcity of land

✓Good weather condition,because area receive rainful throughout the year

No study conducted to know how much community are earning.

This can be the area for institution to focus since it is the research institution.

Field trip to SUA cont……..

- Farmers are not allowed to apply chemical fertilizer or pesticide,they supposed to comply with rule and regulation . In special case they can request to use pesticide with approval of the institution.
- The plot are given for specific individual
- **How do the institution provide plots for farmers/procedures**

1.Farmer are applying through village government

2.Then they are approved by VC.

3.Selection will consider gender,level of income etc.

Field trip to SUA cont……

Visited Laikinoi view point

- ✓Land use by adjacent village
- ✓Arusha City view

Field trip to SUA cont……

- **Visited tree nursery**
  - ✓The size of the nursery is 0.2ha
  - ✓Species planted *Pinus patula,Grevillia robusta,Eucalyptus,*
  - ✓The nursery has the capacity of raising 40,000 seedlings per season.

Field trip to SUA cont……

- **Visited sawmill**

✓The compus has three sawmill, 2old one and one new one

✓New sawmill-**slidetec**

✓It has high speed for timber processing-it produced 1-2m^3/h

✓Recovery rate 48% to 50%

✓They sale Timber,dust and backs

✓No gender balance,there is only one women

Field trip to NELSON MANDELA AFRICAN INSTITUTE OF SCIENCE AND TECHNOLOGY

- **In the afternoon team visited NELSON MANDELA AFRICAN INSTITUTE OF SCIENCE AND TECHNOLOGY.**
- We were welcomed by Prof Suzana Agostino the Deputy-Vice Chancellor for the Istitution, she then introduced us to ongoing Vice Chancellor Prof. Emmanuel Luoga who then give a brief welcome remarks to AFF team.
- **Prof. Suzana then give a brief introduction about the University**
- It currently offering **Master's and PhD degrees in science and engineering areas**, namely:

✓ Life Sciences (LiSe), Bio-Engineering (BioE)

✓ Mathematical and Computer Science and Engineering (MCSE)

✓ Information and Communication Science and Engineering (ICSE)

✓ Materials Science and Engineering (MaSE),

✓ Hydrology and Water Resources Engineering (HWRE),

✓ Environmental Science and Engineering (EnSE) etc

Field trip to NELSON MANDELA cont ……

- ❑Prof Suzana took us to a different place inside the university.
- ❑**Areas visited**

✓Tower which will be used for radio broadcasting, the coverage will be Arusha

✓Botanical garden known as Eco-park, for research and recreational purpose

✓School of computer science which has planned to be the hub for storing data

✓Factory for purifying water. This will be the university business

✓ PhD village where PhD student stayed

Field trip to NELSON MANDELA cont ……

- **Lastly area visited were Innovation based Incubation Centre**
- The Centre has 2 years
- The centre natured the research which are coming from the student and lecturer
- She mention the stage which are taking place during incubation

1. Pre incubation stage
2. Incubation stage

Field trip to NELSON MANDELA cont ……

❑Example of innovations

1.The machine which purify TB virus and also detect them

Field trip to NELSON MANDELA cont ……

1. Automated Surgical gown “save the savior which used to protect a person from getting COCID-19

Field trip to NELSON MANDELA cont ……

3. Leather products which are processed by using organic chemical instead of industrial chemicals

Dinner Party

Lastly was the dinner party at …….

https://drive.google.com/drive/my-drive

THANK YOU