



MINISTRY OF NATURAL RESOURCES AND TOURISM

The role of **Technical order** on increasing productivity of woodlots and plantations in Tanzania

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Technical order

- **THINGS THAT NEED/ REQUIRED TO BE CONSIDERED IN ORDER TO GET RAW MATERIALS OF HIGH QUALITY.**
- **ADHERE TO ALL SILVICULTURAL OPERATIONS**



1. SPECIES – SITE MATCHING

- Ensure that species are matched to their specific planting sites for maximum survival, growth and productivity .
- This helps to **minimise stress** and insect pests and pathogen **attacks** due to offsite planting.



2. TREE SPECIES DIVERSIFICATION

- Ensure against insect pests, pathogens and climatic **fluctuations**.
- Increased market security through species and product diversification.
- At least four tree species in large scale plantations.



3. TREE SEEDS AND VEGETATIVE PROPAGULES

- Ensure generically improved seeds and vegetative propagules are **used** for the establishment of productive and quality plantations and woodlots.



4. TREE NURSERIES

- A nursery is a place where plants are propagated and grown to a desired age/size.
- Ensure production of quality **seedlings** with high survival and initial growth in the field.



5. PLANTATION AND WOODLOTS ESTABLISHMENT





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- **This include:**
 - Site preparation
 - Pitting
 - Spacing
 - Planting



6. PLANTATION MAINTENANCE

- **Post planting care** is necessary for healthy and well stocked stands.
- It should be done timely and properly to offset competitions for growth resources.
- **This include:** Weeding, Pruning and Thinning.
- Ensure reduction of competition for moisture, nutrients, space and light in order to enhance forest/woodlot productivity and quality.



7. FOREST HEALTH

- **Abiotic** and **biotic** **disturbances** have major impacts on the health and vitality of plantations and woodlots.
- **Objective of technical instructions** on forest health management is *to protect forest* plantations and woodlots against **fire, pests, invasive species** and **diseases** in order to enhance productivity and quality.



8. FOREST ROAD CONSTRUCTION AND MAINTENANCE

- There are **two main types** of forest roads: *Access road* and *Branch road*.
- **Access road** connects the forest with the nearest public roads.
- **Branch road** connects the harvesting area to the access roads.



8. FOREST ROAD CONSTRUCTION AND MAINTENANCE

- **Objective of these technical instructions** is to provide a standard road network that guarantees operational access, timely and economic delivery of forest establishment materials, protection and extraction of forest products.



9. FOREST HARVESTING

- **Forest harvesting** is the conversion of trees into consumable products (e.g. saw logs, poles, pulp wood etc) and subsequent delivery to the utility centres.
- **Objective here** is to practice forest harvesting operations for quality, productive, safe and reduced impact to the environment and subsequent crop.



Thank you for your attention!