NURSERY

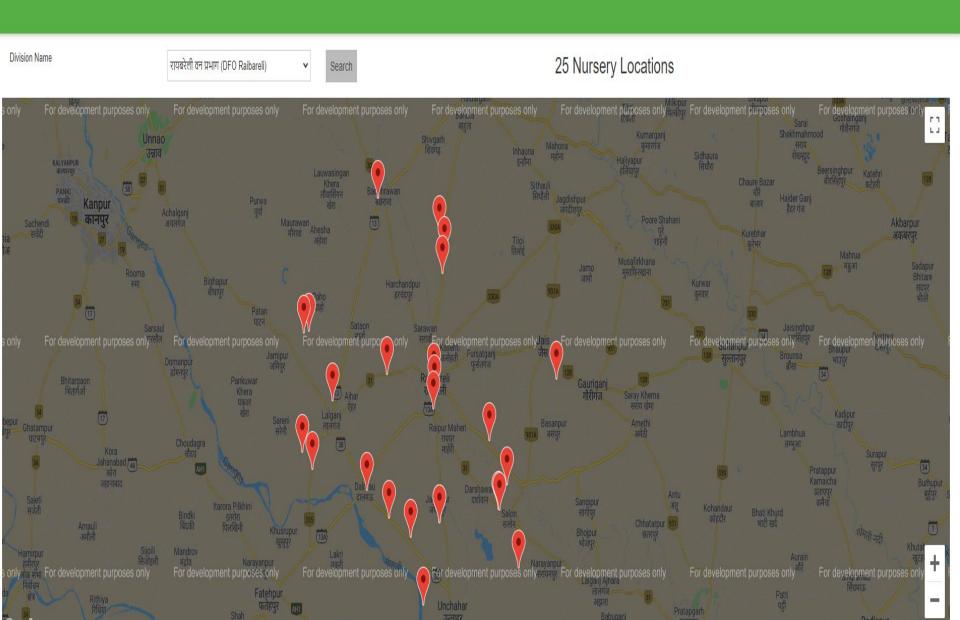
- Area where plants are raised for further planting-out
- Types
 - Seeding Nursery
 - Transplant Nursery
 - Generally both together

- Permanent Nursery
- Log term Supply
- Near the habitation
- Near the staff quarters
- Centrally on the Roads for supply to other consumers also

Temporary Nursery

- Used up to 3 seasons
- General maintenance from Oct-Nov to July (Rainy Season)
- Remaining plants are removed to other nurseries
- Semi permanent Nursery
- Extension Nursery
 - Basically storage places





Importance of Nursery

- Seed Year Varies
- Growth patterns
- Success of various plantation Urban forestry
- Seedlings of Uniform age
- Exotic species

Site Selection

- Connecting with Road
- Supply of Labour
- Well drained soil Loamy
- Sandy & Clayey are not preferred
- Assured water supply

Fencing

- Generally Barbed wire fencing
- Up to 7 strands with Angle iron
 - Eucalyptus poles are also used
 - Trenches with live hedges are also used for temporary nurseries

Area

- Generally 40 % area is used for way & means
- Approximately 1 ha can produce 1 lakh plants



Lay out

- Main Road
- Serving path / Bridle path
- Rectangular Blocks
- Plots 10 to 12 m wide
 - Divided into standard nursery beds
 - Bed size; Length 12 m & width 1m
 Generally 45 cm deep
 - Between 2 beds bunding of 1 ft.

Operation for New Nursery

- Select the area
- Go for the agreement land status
- Fencing
- Light fire to clean the area /Brush cutting
- Harrowing manual as well as by tractor
- Plotting
 - 12m x 1m plots
 - Beds for container plants
 - Plots for ball plants
 - Plots for transplanting

- Seed beds
 - Ankuran kyari
- Raised beds
- Pits as seed beds for teak, Arjun and Kanji
- Sowing in Seed Bed
 - Broadcasting
 - Mixture of soil & manure
 - Watering by mannual labour using water can
- Shading
 - Protection against the Sun
 - Protection against Frost
 - Protection against Rain & Hail



Filling up of Polythene Bags

- 1;2;4 mixture
- Manure;sand;soil
- Generally soil sand and manure is brought from out side
- Soil is broken well & mixed
- Insecticide mixing
- Sieving 2 x 2 mm size mesh
- Slow filling up
- Punch holes at the bottom
- Potting mixures
- Vermicompost
- Mycorrhiza
- https://youtu.be/4anFtBIAme



https://www.youtube.com/watch?v=hWlkJbiizRE

- Seed sowing or pricking
- https://www.youtube.com/watch?v=QO8r6K adWA4
- Teak Nursery English YouTube
- Watering for Nearly one month manually
 - Watering in morning and evening
- Weeding at least once in 15 days
 - Provision in estimate for once in a month
- Shifting of the plants once in 3 months
 - Khair and fast growing species -much earlier
 - Root coiling, root pruning
 - General watering is done by flood irrigation



Grading

Hardening before planting season

Shoot trimming,

Culling



Ball plants

- Conversion to ball plants
- Transplanting
- Root cutting
- Preparation of pindi
- Spacing



- Equipments in the Nurseries
 - Watering can
 - Scissors
 - Secateurs
 - Germination trays
 - Plant carrying trays
 - Sieves

- Planning
- Seed supply
- Polythene bags
- Boards
- Name plates for each bed





- Mist chamber
- Poly houses
- Tissue culture
- High tech nurseries
- High tech low cost nurseries
- Vermi-compost
- Culling out
- Nursery register

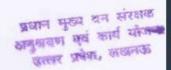
- Clarification
 - Shade House
 - Root cutting
 - 12 feet plants
 - Documentation in nursery
 - Specifications of Targets

कार्यालय प्रधान मुख्य वन संरक्षक, अनुश्रवण एवं कार्य योजना, उ०प्र०, लखनऊ का स्थाई आदेश पत्रांक— 113 / शिविर, दिनांक 05.10.2020

क्यारीवार मासिक गणना प्रपत्र

क्यारी संख्या (थैली पौध के लिए)— प्लाट संख्या (पिण्डी पौध के लिए)—

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- Propagation of Eucalyptus Method
- Ball Plants Transportation
- Irrigation Channels
- Store House, Keeper House
- Stand & Plastic cups
- Division of Area within Nursery

- Layout, Altitude, Aspect, Site Selection,
 Site preparation
- Techniques for uprooting Naked
 Plants
- Time & Height Factor to decide the planting age & goals
- Grafting Techniques
- Pest & Weed control

- Temp. & Humidity Control
- Season of planting & raising nursery
- Tissue Culture