

## D. Maintenance of Central Nursery

### 1. Production & maintenance of root trainer seedlings of teak

Sl.No	FSR Item No.	Labour data	Unit	Particulars
1	GO (MS)1081/88 & (i)	1.6396MM	Cum	Excavation, collection & sieving of soil for preparation of potting mixture
2	LS			Cost of river sand
3	LS			Cost of sieving sand
4	LS			Cost of insecticide (phorate), fungicide (Indofil), nitrogen supplementing materials (neem cake), phosphorus supplementing material (rock phosphate) etc. for mixing in potting medium
5	Work Study	1.6MM	100 blocks (150cc 24 cells RT block)	Transporting materials to potting mixture shed, preparation of potting mixture, filling root trainer blocks, transporting to shade house & arranging on root trainer stands
6	Work Study	0.00240MM	M <sup>2</sup> for one time	Watering pretreated seeds in germination beds 3 times for 20 days
7	Work Study	1MM	600 pre-germinated seeds	Hand picking pre-germinated seeds from beds, dibbling in root trainer cells & adding compost to cover seeds
8	Work Study	1MM	600 pre-germinated seeds	Casualty replacement in empty cells - hand picking pre-germinated seeds from beds, dibbling in root trainer cells & adding compost to cover seeds (10% of total)
9	Work Study	0.00240MM	M <sup>2</sup> for one time	Watering root trainer seedlings 2 times for 30 days in shade house
10	MM	Rs.0.29	Per block	Transport of root trainer seedlings along with stand from shade house to hardening area
11	Work Study	0.00240MM	M <sup>2</sup> for one time	Watering root trainer seedlings 3 times in hardening area for 60 days
12	GO (RT) 1081/88 (k)	0.1062MM	100 seedlings	Singling out seedlings from root trainer cells
13	MM	1MM	500 seedlings	Grading of root trainer seedlings (pulling out seedlings, classify them based on size & refitting similar size seedlings in trays)
14	81 (a)	0.5MM	15 M <sup>2</sup>	Removal of weeds from root trainer cells as & when necessary
15	LS			Cost of micronutrients for external application (foliar spray), pesticides & insecticides if required

16	MM			Engaging mazdoor for applying insecticides/pesticides/foliar spray etc
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**Note:**

1. Singling out operation may be carried out only when it is found necessary. If it is allowed it may be restricted to 1/3rd of the total seedlings raised.
2. Seed pre-treatment may be done by nursery mazdoor.
3. Grading of root trainer seedlings based on size is allowed should be restricted to half of the total seedlings raised.
4. Casualty replacement if allowed should be restricted to 10% of the total root trainer cells dibbled

## **2. Production & maintenance of root trainer seedlings of pulp wood**

### **/miscellaneous species**

Sl.No	FSR Item No.	Labour data	Unit	Particulars
1	GO (MS)1081/88 & (i)	1.6396MM	Cum	Excavation, collection & sieving of soil for preparation of potting mixture
2	LS			Cost of river sand
3	LS			Cost of sieving sand
4	LS			Cost of insecticide (phorate), fungicide (Indofil), nitrogen supplementing materials (neem cake), phosphorus supplementing material (rock phosphate) etc. for mixing in potting medium
5	Work Study	1.6MM	100 blocks (150cc 24 cells RT block)	Transporting materials to potting mixture shed, preparation of potting mixture, filling root trainer blocks, transporting to shade house & arranging on root trainer stands
6	Work Study	1MM	600 pre-germinated seeds	Hand picking pre-germinated seeds from beds, dibbling in root trainer cells & adding compost to cover seeds
7	Work Study	1MM	600 pre-germinated seeds	Casualty replacement in empty cells - hand picking pre-germinated seeds from beds, dibbling in root trainer cells & adding compost to cover seeds (10% of total)
8	Work Study	0.00240MM	M <sup>2</sup> for one time	Watering root trainer seedlings 2 times for 30 days in shade house
9	MM	Rs.0.29	Per block	Transport of root trainer seedlings along with stand from shade house to hardening area
10	Work Study	0.00240MM	M <sup>2</sup> for one time	Watering root trainer seedlings 3 times in hardening area for 60 days
11	GO (RT) 1081/88 (k)	0.1062MM	100 seedlings	Singling out seedlings
12	81 (a)	0.5MM	15 M <sup>2</sup>	Removal of weeds from root trainer cells
13				Cost of micro nutrients for external application (foliar spray), pesticides & insecticides if required
14	MM			Engaging mazdoor for applying insecticides/pesticides/foliar spray etc

### **Note:**

1. Seed pre-treatment may be done by nursery mazdoor.
2. Singling out may be allowed only to minor seeds like eucalyptus, casuarinas etc. It may be limited to 1/3rd of the total seedlings raised.
3. Grading of root trainer seedlings may be allowed only when if it found necessary, it may be restricted to 1/3rd of the total seedlings produced. Grading is not required for *Acacia auriculiformis*

4. Addition of suitable microbial nutrients may be allowed if it found promote the growth of seedlings in nursery as well as in the field.

### **3. Preparation of weed compost**

<b>Sl.No</b>	<b>FSR Item No.</b>	<b>Labour data</b>	<b>Unit</b>	<b>Particulars</b>
1	163 (i)	7.5MM	678.8Kg	Collection & transport of green leaves
2	Local Rate			Loading & unloading charges of green leaves to nursery by Dept. Lorry (if loading & unloading are done by union labours)
3	Work Study	2.26MM	Per tonne	Chopping of green material & carrying to compost shed
4	Work Study	9MM	Per tonne for 20 times	Labour cost for turning compost heaps 20 times
5	Work Study	2.76MM	Per tonne	Labour cost for drying & sieving compost
6	LS			Cost of urea
7	LS			Cost of sieve, spares of chopping machine & engine, repairing charges, fuel / electricity charge, tools etc.

#### **Note:**

1. Compost should be weighed prior to sieving, this weight only be used for charging expenditure of sieving compost.
2. Cost of the weed compost is about Rs.25/Kg. It is too high when compared to rate of vermi-compost or other organic compost available in the market. Hence compost production for raising seedlings for next planting year shall be taken up only after the nursery trail with vermi-compost. The nursery trail with vermi-compost instead of weed compost should be taken up during the month of May, June and July. Weed compost medium should be used as control for comparative study.