

**MODEL ESTIMATE FOR RAISING TALLER SEEDLINGS UNДАР COMPENSATORY AFFORESTATION
PLANTATION (Nursery)**

Size of bag : 30 x 45 cm

Wages Rate Rs. 326.5

Original Planting 1000
Replacement 0
Total 1000

| Sl. No. | Name of work | FSR / SSR item No. | Quantity | Unit | Rate | Per | Amount |
|---------|---|-----------------------|----------|------|---------|-----------|--------|
| 1 | 2 | 3 | 4 | 5 | 7 | 8 | 9 |
| 1 | Cost of 30 x 45 cm Poly Bags | Tender Rate 2017 - 18 | 1000 | Nos | 5449.50 | 1000 | 5450 |
| 2 | Cost of 13 x 25 saplings | MTP ME | 1000 | Nos. | 7.70 | 1 | 7700 |
| 3 | Collection & Supply of sand, silt and red soil for filling in poly bags 9.23 m3/1000 Nos. | MTP ME | 9.23 | Cu.m | 750.00 | 1 | 6923 |
| 4 | Cost and transport of Farmyard manure for filling bags. | MTP ME | 2.31 | Cu.m | 750.00 | 1 | 1733 |
| 5 | Preparation of soil mixture by breaking clods, sieving, mixing red soil, sand, according to requirement and farm yard manure in the ratio of 4:1 heaping at the filling site and filling in polybags, arranging bags in beds and pricking out the seedlings (excluding cost of soil mixture and Farm yard manure) | 4.6.7 | 1000 | Nos | 9092.40 | 1000 | 9092 |
| 6 | Labour cost for transplanting seedlings from 13x25 to 30x45 containers | FSR | 1000 | Nos | 326.50 | 100 | 3265 |
| 7 | Cost of Supporting vertical stick, Tag and labour | MTP ME | 1000 | Nos | 6.00 | No | 6000 |
| 8 | Cost of horizondal stick | MTP ME | 500 | Mtr | 1.00 | M | 500 |
| 9 | Tying plants to vertical stick once in a month 2 times | MTP ME | 1000 | Nos | 0.20 | No | 400 |
| 10 | Pruning side branches once in 2 months 2 times | MTP ME | 1000 | Nos | 1.00 | No | 2000 |
| 11 | Cost of vermicasting @ 35 gm per seedlings. | Modern Nursery Rate | 35.00 | Kg. | 10.00 | Kg | 350 |
| 12 | Cost of VAM @ 15 gm per seedlings. | Modern Nursery Rate | 15.00 | Kg. | 18.00 | Kg | 270 |
| 13 | Cost of Azospirillum @ 6 gm per seedlings. | Modern Nursery Rate | 6.00 | Kg. | 27.00 | Kg | 162 |
| 14 | Cost of Phosphobacteria @ 6 gm per seedlings. | Modern Nursery Rate | 6.00 | Kg. | 27.00 | Kg | 162 |
| 15 | Application of DAP 20 g per seedlings | Quotation | 20.00 | Kg. | 40.00 | Kg | 800 |
| 16 | Application of Neem cake 100 g per seedlings | Quotation | 100.00 | Kg. | 30.00 | Kg | 3000 |
| 17 | Watering the container with rose cans twice daily - 60 days. | 4.10.7 | 1000 | Nos | 178.22 | 1000 1 | 10693 |

**Model Estimate for Planting of 30x45 cm Taller Seedlings Under Compensatory
Afforestation in Mullakadu Rf of Thoothukudi Range of Thoothukudi Forest Division**

Size of bags 30 x 45 cm x 300 G

No of seedlings 1000

Replacement 0

Total 1000

Wages rate : Rs. 326.5

| Sl. No. | Quantity | Description Of Work | FSR /SSR item no. | Rate | Per | Amount |
|---------|----------|--|-------------------|---------|------|--------|
| 1 | 1000 | Digging 60 cm ³ pits in plains during rainy season. | 5.8.2 | 2520.58 | 100 | 25206 |
| 2 | 1000 | Loading and Unloading the Container Seeding (30x45 cm) in Private lorry excluding hire Charges for the Vehicles. | 5.11.7 | 1074.19 | 1000 | 1074 |
| 3 | 1000 | Transport the Container Seeding (30 x 45 cm) in Private Vehicles up to a lead of 10 kms excluding loading and unloading Charge. | MTP ME | 3591.50 | 1000 | 3592 |
| 4 | 1000 | Distribution of seedling in the site Container plants up to 500 mts in plains.Up to 100 m | 5.15.1 | 3265.00 | 1000 | 3265 |
| 5 | 1000 | Cost of poultry manure @ 500 g per plant by mixing in the pit before planting. | MTP ME | 5.00 | 1 | 5000 |
| 6 | 1000 | Application of poultry manure @ 500 g per plant before planting. | FSR | 326.50 | 200 | 1633 |
| 7 | 1000 | Cost of biofertiliser and application of Vermicompost, VAM, | MTP ME | 7.70 | 1 | 7700 |
| 8 | 1000 | Application of DAP mixture @ 40g per plant by mixing in the pit before planting including cost & transport . | Quotation | 1.60 | 1 | 1600 |
| 9 | 1000 | Planting the container plants by refilling pits of size 60 cm x 60 cm x | 5.22 | 561.31 | 100 | 5613 |
| 10 | 1000 | 2 mtr Support pole to protect saplings from wind damage. | PWD SSR | 48.04 | 1 | 48040 |
| 11 | 0 | Replacement of causalities by reopening failed pits and planting the seedlings. | 5.23 | 1728.10 | 100 | 0 |
| 12 | 1000 | Scraping for 1 m dia and soil working 15 cm depth around each plant and removing the grass roots away from the site of upturning the soil. | 5.24 | 381.61 | 100 | 3816 |

**Model Estimate for 1st year maintance of 30x45 cm Taller Seedlings Under Compensatory
Afforestation in Mullakadu Rf of Thoothukudi Range of Thoothukudi Forest Division**

Size of bags 30 x 45 cm x 300 G

No of seedlings 400

Replacement 0

Wages rate : Rs. 326.5

Total 400

| Sl. No. | Quantity | Description Of Work | FSR /SSR item no. | Rate | Per | Amount |
|---------|----------|---|-------------------|---------|------|--------|
| 2 | 40 | Loading and Unloading the Container Seeding (30x45 cm) in Private lorry excluding hire Charges for the Vehicles. | 5.11.7 | 1074.19 | 1000 | 43 |
| 3 | 40 | Transport the Container Seeding (30 x 45 cm) in Private Vehicles up to a lead of 10 kms excluding loading and unloading Charge. | MTP ME | 3591.50 | 1000 | 144 |
| 4 | 40 | Distribution of seedling in the site Container plants up to 500 mts in plains.Up to 100 m | 5.15.1 | 3265.00 | 1000 | 131 |
| 5 | 40 | Cost of poultry manure @ 500 g per plant by mixing in the pit before planting. | MTP ME | 5.00 | 1 | 200 |
| 6 | 40 | Application of poultry manure @ 500 g per plant before planting. | FSR | 326.50 | 200 | 65 |
| 7 | 40 | Cost of biofertiliser and application of Vermicompost, VAM, | MTP ME | 7.70 | 1 | 308 |
| 8 | 40 | Application of DAP mixture @ 40g per plant by mixing in the pit before planting including cost & transport . | Quotatio n | 1.60 | 1 | 64 |
| 11 | 40 | Replacement of causalities by reopening failed pits and planting the seedlings. | 5.23 | 1728.10 | 100 | 691 |
| 12 | 400 | Scrapping for 1 m dia and soil working 15 cm depth around each plant and removing the grass roots away from the site of upturning the soil. | 5.24 | 381.61 | 100 | 1526 |
| 13 | 2 | Engaging protection mazdoor @ 1 mazdoor for 500 seedlings palants in road avenue plantations 120 days from 25.12.2016 to 25.03.2017 for 2 mazdoors. | MTP ME | 326.50 | 1 | 78360 |

**Model Estimate for IInd year maintance of 30x45 cm Taller Seedlings Under Compensatory
Afforestation in Mullakadu Rf of Thoothukudi Range of Thoothukudi Forest Division**

Size of bags 30 x 45 cm x 300 G

No of seedlings 400

Replacement 0

Wages rate : Rs. 326.5

Total 400

| Sl. No. | Quantity | Description Of Work | FSR /SSR item no. | Rate | Per | Amount |
|---------|----------|--|-------------------|---------|--------------|--------------|
| 1 | 400 | Scrapping for 1 m dia and soil working 15 cm depth around each plant and removing the grass roots away from the site of upturning the soil. | 5.24 | 381.61 | 100 | 1526 |
| 2 | 1 | Engaging protection mazdoor @ 1 mazdoor for 500 seedlings palants in road avenue plantations 120 days . | MTP ME | 326.50 | 1 | 39180 |
| 3 | 400 | Watering the Plants during summer / non rainy period from Jan 2018 to February 2018 @ one mazdoor for 200 plants / Watering day (6 watering days) | MTP ME | 326.50 | 200 | 9795 |
| 4 | 48000 | Cost of water @ 20 liters per seedlings (6 watering days) at the rate once in 6 days – 6x20x400 = 48000 liters. | MTP ME | 1200.00 | 12000 | 4800 |
| 5 | L.S | Contingencies documentation, etc., | L.S | - | - | 2019 |
| | | | | | Total | 57320 |

District Forest Officer
Thoothukudi Forest Division
Thoothukudi

28-11-18
28-11-18

MODEL ESTIMATE FOR FENCING AROUND THE COMPENSATRY LAND OF MULLKADU RF OF THOOTHUKUDI

Abstract Estimate

| Sl. No | Qty | Description | Rate | Per | Amount |
|--------|---------|---|---------|-----|--------|
| 1 | 47.100 | Earth work Excavation for foundation in all soils and sub soils and to full depth as may be directed except rock requiring blasting inclusive of shoring, strutting and baling- out of water wherever necessary, re-filling the sides of foundation with excavated earth in layers of 15cm thick well rammed and compacted, depositing the surplus earth within the compound in places shown by the Departmental Officers with an initial lead of 10 meters and lift of 2 meters lift etc., complete with standard specifications. | 135.31 | Cum | 6373 |
| 2 | 3.925 | Supllyng and filling with Clear River sand in layers of not more then 23 cmm tk well cramped consolidated for foundation and basement including cost of sand and labour for filling watering extra complete as per standred specification | 956.57 | Cum | 3755 |
| 3 | 11.775 | Plain cement concrete 1:5:10 (one cement, two sand and fourbroken stone) using hard broken granite stone jelly 40mm gauge for foundation and flooring including dewatering if found necessary and laid in layers of not more than 15cm thick in the case of foundation. | 3766.00 | Cum | 44345 |
| 4 | 9.424 | Plain cement concrete 1:2:4 (one cement, two sand and fourbroken stone) using hard broken granite stone jelly 20mm gauge for foundation and flooring including dewatering if found necessary and laid in layers of not more than 15cm thick in the case of foundation etc. complete complying with standard specification | 6091.50 | Cum | 57406 |
| 5 | 169.600 | Supplying and erecting centering for sides and soffits including supports and strutting upto 3.29m high for plain surfaces such as <u>RCC slab, beams, TEE or Ell beams, Lintels staircase</u> beams etc., with all cross bearings using mild steel sheets of size 90mm x 60mm of B.G.10 stiffened with welded mild steel angles of size 25 mm x 25 mm x 3 mm boarding laid over silver oak (or) country wood joists of size 10 cm x 6.5 cm spaced at about 90 cm centre to centre and supported by casuarinas props of 10cm to 13 cm dia spaced at 75 cm centre to centre at suitable interval. etc., complete complying standard specifications. | 242.27 | Sqm | 41089 |
| 6 | 8.056 | Cement Concrete 1:2:4 (One Cement, two sand and four broken stone) using 20mm gauge machine crushed hard broken granite stone jelly for all RCC item of works excluding centering strutting reinforcement grill placed in position but including curing vibration charges etc., complete and also including providing fixtures like fan clamps etc., In the R.C.C. floor or roof, slab wherever necessary and baring surfaces of walls at the bottom of the slabs shall be finished smooth with cement mortar 1:3 (One cement three sand) and craft paper laid without claiming extra cost etc., complete,. | 6091.50 | Cum | 49073 |

Detailed Estimate

| Sl. No | Description | Nos | | | L | B | D | Qty |
|--------|---|-----|---|-----|------------------|-------|-------|-----------------|
| 1 | Clearing for Footing | | | | | | | |
| | Over all length | 1 | x | 1 | 800.00 | 2.00 | 0.00 | 800.000 |
| | | | | | | | | 800.000 |
| 2 | Earth work excavation for Footing | | | | | | | |
| | Over all Footing (Dia 0.50 mtr) | 1 | x | 400 | 0.20 | | 0.60 | 47.100 |
| | | | | | (3.14x0.25x0.25) | | | 47.100 |
| 3 | Sand Filling for foundation | | | | | | | |
| | Over all Footing | 1 | x | 400 | 0.20 | | 0.05 | 3.925 |
| | | | | | | | | 3.925 |
| 4 | PCC 1:5:10 for foundation | | | | | | | |
| | Over all Footing | 1 | x | 400 | 0.20 | | 0.15 | 11.775 |
| | | | | | | | | 11.775 |
| 5 | P.C.C1:2:4 using 20 mm | | | | | | | |
| | Over All Footing | 1 | x | 400 | 0.20 | | 0.400 | 31.400 |
| | | | | | | | | 31.400 |
| | Over All Column | 1 | x | 400 | 0.10 | 0.10 | 0.40 | 1.600 |
| | | | | | | | - | 1.600 |
| | | | | | | | | 29.800 |
| 6 | Centring Works Lintels/slabs/beams | | | | | | | |
| | Column | | | | | | | |
| | Over all Column | 1 | x | 424 | 4.00 | | 0.100 | 169.600 |
| | | | | | | | | 169.600 |
| 7 | RCC 1:2:4 a) F&B | | | | | | | |
| | Over all Column | 1 | x | 424 | 1.90 | 0.100 | 0.100 | 8.056 |
| | | | | | | | | 8.056 |
| 8 | Fabrication of steel | | | | | | | |
| | Over all Column Main rod (8 mm) | 424 | x | 4 | 1.85 | | 0.395 | 1239.352 |
| | Over all Column (6 mm) | 424 | x | 10 | 0.38 | | 0.222 | 352.980 |
| | | | | | | | | 1592.332 |
| | | | | | | | | 15.923 |
| 9 | White Wash | | | | | | | |
| | Over all column | 1 | x | 424 | 0.40 | 1.50 | | 254.400 |
| | | | | | | | | 254.400 |
| | | | | | | | | 254.400 |