

169

UNIT COST FOR RAISING OF PRIMARY BEDS

| Sl. No. | FSR-2019-20 Code | Item of work | Unit | FSR Rate (Rs.) | Agency allowance 25% (Rs) | Total Rate (Rs.) | Amount (Rs.) |
|---------|------------------|--|---------|----------------|---------------------------|------------------|--------------|
| 1 | 01.00.00 | PRIMARY BEDS of 1x1x0.3 m size for Miscellaneous species including bamboo - 50 primary beds for 1 lakh nursery is permitted. Primary beds should start from Jan - May depending on availability of fresh seeds. Once primary beds are formed, they can be used upto 5 years without changing the medium - what is required each time is solarization, burning a layer of grass on it and adding the below recommended fungicides and insecticides to the medium. | | | | | |
| 2 | 01.01.01 | Preparation of New Site by clearing jungle growth, uprootal of stumps and removal of surface stones, pebbles etc. | Bed | 4.95 | 0.00 | 4.95 | 4.95 |
| 3 | 01.01.03 | Digging soil of the demarcated beds of 1x1x0.30 m size | Bed | 38.15 | 0.00 | 38.15 | 38.15 |
| 4 | 01.01.04 | Cost of sandy soil and transportation with 5 kms lead including loading and unloading charges (sandy soil and FYM in 5:1 ratio, i.e., 0.125 cum sandy soil and 0.025 cum FYM per primary bed | Bed | 28.85 | 0.00 | 28.85 | 28.85 |
| 5 | 01.01.05 | For every extra km beyond 5 km upto 25 km | Bed | 23.00 | 0.00 | 23.00 | 23.00 |
| 6 | 01.01.06 | Cost and transport of 0.025 cum FYM | Bed | 24.80 | 0.00 | 24.80 | 24.80 |
| 7 | 01.01.07 | Mixing of sandy soil and FYM in 5:1 proportion (50 % of volume of bed) with excavated soil and refilling the bed and levelling. | Bed | 10.85 | 0.00 | 10.85 | 10.85 |
| 8 | 01.01.08 | Covering the beds with dried grass and leaf litter and burning them to ash which can form the upper layer | Bed | 12.40 | 0.00 | 12.40 | 12.40 |
| 10 | 01.01.10 | Cost of seed - seed weight, germination percentage and target of planting stock of individual species are to be taken into consideration while estimating the requirement of seeds | Bed | 500.00 | 0.00 | 500.00 | 500.00 |
| 11 | 01.01.12 | Sowing of seed (finer seeds like Adina, Mitragyna, Anthocephalus etc. to be mixed with sand and broadcasted - Bigger seeds to be dibbled in lines 1-2 cm apart) and covering the bed to a thickness of 2.5 cm with paddy hay including cost and conveyance | Bed | 12.35 | 0.00 | 12.35 | 12.35 |
| 12 | 01.01.13 | Watering the primary nursery beds with rose water cans twice daily for a maximum period of 2 months. | 45 Days | 13.90 | 0.00 | 13.90 | 20.85 |
| 13 | 01.01.15 | Cost of chemicals, fungicide and insecticide | Bed | 5.00 | 0.00 | 5.00 | 5.00 |
| 14 | | Electrical Charges | | 20.00 | 0.00 | 20.00 | 20.00 |
| | | Total | | | | | 701.20 |
| | | Raising of seedlings 110% for obtaining 100% | | | | 10% | 70.12 |
| | | Total | | | | | 771.32 |
| | | cost of each plant (2000 plants per bed) - 2019-20 | | | | | 0.3857 |

10% escalation every year

[Signature]
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12/1

UNIT COST FOR BAG PLANT NURSERY

| Sl. No. | FSR-2019- 20 Code | Item of work | Unit | Quantity | As per FSR | | | | Amount (Rs.) |
|---------|----------------------|--|------|----------|------------|------|---------------------------|------------|--------------|
| | | | | | Rate (Rs) | Per | Agency allowance 25% (Rs) | Total (Rs) | |
| | | BAG PLANT NURSERY: Seedlings need to be raised in 4"x7" (200 gauge) or 5"x9" (250 gauge) bags which are to be converted into 6"x12" (400 gauge) or 8"x12" (400 gauge) polybags. The seedlings are to be transplanted from primary beds in June - July. Hence the bags are to be filled during April-May when the soil is dry. | | | | | | | |
| | | Raising of Nursery in Polythene bags in sizes of 4"x7" (200 gauge) or 5"x9" (250 gauge) bags and arranging in secondary beds (Bed size: 10 X 1 M). | | | | | | | |
| 1 | 01.03.01 | Site preparation for New Sites - Clearing of growth, uprootal of stumps and removal of surface stones, rubbish of all sorts etc. | Bed | 1 | 49.60 | 1 | 0.00 | 49.60 | 49.60 |
| | | Cost of Polybags (including the cost of certification by): To ensure quality control, the quality of bags have to be certified by CIPET (Central Institute of Plastic Engineering & Technology), Hyderabad at the cost of tenderer by taking samples from various lots of polybags. | | | | | | | |
| 2 | 01.03.03 | 10 cm x 17.5 cm (4" x 7") size bags of 200 g: 589 bags / kg | Kg | 4.41 | 156.00 | 1 | 0.00 | 156.00 | 687.96 |
| | 01.03.04 | Cost and Transport of ingredients for Potting Mixture: (As per CSSR) Red Soil, tank-silt, FYM in 2:1:1 ratio. To this soil mixture, 220 gm of Indophyll M-45, 4.5 kg of single super phosphate (SSP) and 250 gm of phorate granules per 1 cum of potting mixture will be added. Cost of chemicals is as per actuals. | | | | | | | |
| | 01.03.05 | Distance upto 5 km | | | | | | | |
| 3 | a | 10 cm x 17.5 cm (4" x 7") size bags: 2600 bags / bed | No's | 2600 | 197.20 | 1000 | | 197.20 | 512.72 |
| | 01.03.06 | For every extra km beyond 5 km upto 25 km | | | | | | | |
| 4 | a | 10 cm x 17.5 cm (4" x 7") = 0.56 cum vol. for 1000 bags | No's | 2600 | 5.15 | 1000 | | 5.15 | 13.39 |
| | 01.03.08 | Preparation of Potting Mixture by powdering of various ingredients, sieving and mixing them in prescribed proportion; opening of bags and filling with potting mixture and gently pressing the same with finger tips and arranging in beds. | | | | | | | |
| 5 | a | 10 cm x 17.5 cm (4" x 7") size bags: 2600 bags / bed | No's | 2600 | 583.90 | 1000 | 0.00 | 583.90 | 1518.14 |
| 6 | 01.03.09 | Alignment of beds including alignment of inspection paths etc | Bed | 1 | 7.60 | 1 | 0.00 | 7.60 | 7.60 |
| 7 | 01.03.10 | Pricking out seedlings from primary beds and transplanting into polybags | No's | 2600 | 140.70 | 1000 | 0.00 | 140.70 | 365.82 |
| 8 | 01.03.11 | Sowing / dibbling of pretreated seeds (e.g. Yegisa, Nalamadi, Yerumaddi etc.) directly into bags including cost of treatment | No's | 2600 | 83.70 | 1000 | 0.00 | 83.70 | 217.62 |
| 9 | 01.03.12 | Watering the plants (2 Months) twice a day from Feb-March - a) Manually with rose cans or finely perforated nozzle attached to a hose pipe | Bed | 4 | 273.10 | 1 | 0.00 | 273.10 | 1092.40 |
| 10 | 01.03.13 | Weeding to be done for every 2 months from the date of transplantation up to March | Bed | 4 | 50.15 | 1 | 0.00 | 50.15 | 200.60 |
| 11 | 01.03.14 | 1st shifting and grading after three months and consecutive shifting and grading after every two months till the nursery stock is lifted | Bed | 1 | 234.25 | 1 | 0.00 | 234.25 | 234.25 |

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| | | | | | | | | | |
|----|----------|--|-------|---|---------|-----|------|---------|---------|
| 12 | 01.03.15 | Replacement of casualties after sorting out the empty bags and keeping at one end of the bed (maximum 10% of total stock is permissible) | Bed | 1 | 66.50 | 1 | 0.00 | 66.50 | 66.5 |
| 13 | 01.03.16 | Cost of foliar nutrient formulations like multiplex or NPK-19:19:19; fungicides and insecticides from July to Oct. | Bed | 1 | 34.00 | 1 | 0.00 | 34.00 | 34.0 |
| 14 | 01.03.18 | Weeding in the space between the beds, inspection path and surroundings of Nursery | Bed | 2 | 34.20 | 1 | 0.00 | 34.20 | 68.4 |
| 15 | 01.05.04 | Cost of Protection: One Nursery Watcher is allowed up to 1 lakh RT nursery or 100 secondary beds of polybags / 100 Teak beds of 10 x 1 m size or combination of both. One additional Nursery Watcher is permitted for nurseries having more than 1 lakh upto 3 lakh RT seedlings or more than 100 upto 300 secondary beds or Teak beds of 10 x 1 m size or combination of both. For more than 3 lakh RT or 300 secondary beds of Teak beds or combination of both another additional Nursery Watcher is allowed. While calculating the number of Nursery Watcher, care shall be taken to include the nursery raising under all Schemes at a particular site. No extra Nursery Watcher is allowed for primary beds of 1x1 m size. However, the above narrative is subject to the provisions cited under general instructions. | Bed | 4 | 8754.60 | 100 | 0.00 | 8754.60 | 350.18 |
| 16 | | Electricity charges | | | | | 0.00 | 300.00 | 300.00 |
| 17 | | Add casualty 10% | Total | | | | | | 5719.18 |
| | | 2019-20 Grand Total cost of each plant (2600 plants per bed) 10% escalation every year | | | | | | | 751.09 |
| | | | | | | | | | 6470.27 |
| | | | | | | | | | 3.8060 |

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UNIT COST FOR MAINTENANCE OF BAG PLANTS (4"x7")

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| Sl. No. | FSR-2019-20 Code | Item of work | Unit | Quantity | As per FSR | | | | Amount (Rs.) |
|---------|---------------------|---|------|----------|------------|-----|---------------------------------|------------|--------------|
| | | | | | Rate (Rs) | Per | Agency allowence 25% (Rs) | Total (Rs) | |
| | | Maintenance of 4"x7" or 5"x9" bag-plants from April – August - Watering the plants twice a day from April – August | | | | | | | |
| 1 | 01.03.19 | (a) Manually with rose cans or finely perforated nozzle attached to a hose pipe | Bed | 5 | 273.1 | 1 | 0 | 273.1 | 1365.50 |
| 2 | 01.03.20 | Weeding the beds during May & July | Bed | 2 | 50 | 1 | 0 | 50.15 | 100.30 |
| 3 | 01.03.21 | Shifting, grading and rearrangement in beds | Bed | 1 | 234 | 1 | 0 | 234.25 | 234.25 |
| 4 | | Electricity charges | | | | | | | 300.00 |
| 5 | 01.05.04 | Cost of Protection: One Nursery Watcher is allowed up to 1 lakh RT nursery or 100 secondary beds of polybags / 100 Teak beds of 10 x 1 m size or combination of both. One additional Nursery Watcher is permitted for nurseries having more than 1 lakh upto 3 lakh RT seedlings or more than 100 upto 300 secondray beds or Teak beds of 10 x 1 m size or combination of both. For more than 3 lakh RT or 300 secodary beds of Teak beds or combination of both another additional Nursery Watcher is allowed. While calculating the number of Nursery Watcher, care shall be taken to include the nursery raising under all Schemes at a particular site. No extra Nursery Watcher is allowed for primary beds of 1x1 m size. However, the above narrative is subject to the provisions cited under general instructions. | Bed | 4 | 8754.60 | 100 | 0.00 | 8754.60 | 350.18 |
| | | 2019-20 Total | | | | | | | 2350.23 |
| | | cost of each plant (2600 plants per bed) | | | | | | | 0.9039 |
| | | 10% escalation every year | | | | | | | |


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UNIT COST FOR CONVERSION FROM 4"x7" to 6"x12"

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| Sl. No. | FSR-2019-20 Code | Item of work | Unit | Quantity | As per FSR | | | Amount (Rs.) |
|---------|------------------|--|------|----------|------------|------|---------------------------|----------------|
| | | | | | Rate (Rs) | Per | Agency allowance 25% (Rs) | |
| | | CONVERSION of Root Trainer plants or 4"x7" or 5"x9" bag-plants into higher size bags - to be done during September - October. At the time of conversion, the height of the plants should be at least above 0.45m in height (excluding the height of polybag). | | | | | | |
| | | Cost and Transport of ingredients for Potting Mixture: Red Soil, tank-silt / clayey soil, FYM in 2:1:1 ratio. To this soil mixture, 220 gm of Indophyll M-45, 4.5 kg of single super phosphate (SSP) and 250 gm of phorate granules per 1 cum of potting mixture will be added. Cost of chemicals is as per actuals. | | | | | | |
| | 01.03.24 | Transportation of soil mixture ingredients | | | | | | |
| | | Distance up to 5 km | | | | | | |
| 1 | c | 4" x 7" to 6" x 12" polybags (2.15 - 0.56 = 1.59 cum) | No | 1100 | 560.00 | 1000 | 0.00 | 560.00 616.00 |
| | 01.03.25 | Transportation of soil mixture ingredients more than 5 km distance and upto 25 km distance | | | | | | |
| 2 | c | 4" x 7" to 6" x 12" polybags (2.15 - 0.56 = 1.59 cum) | No | 1100 | 14.60 | 1000 | 0.00 | 14.60 16.06 |
| | 01.03.27 | Preparation of Potting Mixture by powdering of various ingredients, sieving and mixing them in prescribed proportion; opening of bags and filling with potting mixture partially, tearing the polybag plants and repotting them inside bigger bags and filling the rest of bags; gently pressing the same with finger tips and arranging in beds of 10x1 m size (6"x12" size: 1100 bag plants / bed and 8"x12" size: 800 bag plants per bed) | | | | | | |
| 3 | c | 4" x 7" to 6" x 12" polybags (2.15 - 0.56 = 1.59 cum) | No | 1100 | 998.45 | 1000 | 0.00 | 998.45 1098.30 |
| | 01.03.33 | Weeding the plants (1100 no. of 6"x12" bags; 800 no. of 8"x12" bags; and 400 no. of 10"x16" bags) from November - March: 2 weedings | | | | | | |
| 4 | | Weeding the plants (2 weedings) | Bed | 2 | 50.15 | 1 | 0.00 | 50.15 100.30 |
| 5 | 01.03.34 | Shifting, Grading and rearranging in secondary beds - One Grading in February | Bed | 2 | 234.25 | 1 | 0.00 | 234.25 468.50 |
| | 01.03.35 | Watering the plants manually twice a day (from November - March) with rose spray or finely perforated nozzle attached to a hose pipe. | | | | | | |
| 6 | a | Manually with rose spray or finely perforated nozzle attached to a hose pipe | Bed | 5 | 273.15 | 1 | 0.00 | 273.15 1365.75 |
| | 01.03.37 | Cost of foliar nutrient formulations like multiplex or NPK-19:19:19; fungicides and insecticides from July to Oct. | | | | | | 30.00 |
| 7 | 01.05.04 | Cost of Protection: One Nursery Watcher is allowed up to 1 lakh RT nursery or 100 secondary beds of polybags / 100 Teak beds of 10 x 1 m size or combination of both. One additional Nursery Watcher is permitted for nurseries having more than 1 lakh upto 3 lakh RT seedlings or more than 100 upto 300 secondary beds or Teak beds of 10 x 1 m size or combination of both. For more than 3 lakh RT or 300 secondary beds of Teak beds or combination of both another additional Nursery Watcher is allowed. While calculating the number of Nursery Watcher, care shall be taken to include the nursery raising under all Schemes at a particular site. No extra Nursery Watcher is allowed for primary beds of 1x1 m size. However, the above narrative is subject to the provisions cited under general instructions. | Bed | 4 | 8754.60 | 100 | 0.00 | 8754.60 350.18 |
| 8 | | Cost of the polythene bags | | | | | | |
| 9 | 01.03.39 | Electricity charges | | | | | | 2340.00 |
| | | | | | | | | 500.00 |
| 10 | 01.03.38 | Contingencies @ 5% | | | | | | 6885.09 |
| | | 2019-20 Total for 1100 plants | | | | | | 344.254 |
| | | cost of each plant | | | | | | 7229.34 |
| | | 10% escalation every year | | | | | | 6.5721 |

[Signature]
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Nizamabad.

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Forest Divisional Officer,
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| FSR Code | Item of work | Unit | Quant ity | Unit Rate per Ha | | | | Amount (Rs.) |
|---------------------------|--|----------------|--------------|------------------|---------------------------------|-------------|-----|-----------------|
| | | | | As per FSR | | | | |
| | | | | Rate (Rs.) | Agency allowence 25% (Rs) | Total (Rs.) | Per | |
| 02.08.01 | Survey with hand-held GPS (staff to carry out) and demarcation - one manday is allowed for assistance. The surveyed sketch with exact effective area statement will be uploaded in MIS platform by end of December. | Plantat ion | 1 | 356.65 | 0.00 | 356.65 | 1 | 357 |
| 02.08.02 | Clearing unsalable unwanted jungle growth (leaving all the tree species of good form particularly the hardwood tree species like Teak, Nallamaddi, Yegisa, Narepa, Somi, Jitregi, Billudu, Chenangi etc. and NTFP species like Ippa, Morri, Tani, Karaka, Vepa, Maredu, Tapasi, Tuniki, Chinta, Usuri, Nallajeedi etc.); Spreading the cut material all over the site; and Burning the same twice till completely burnt. The unsuitable area shall be excuded from the clearing opearation and the expenditure shall be incurred for effective area only. All the above operations shall be completed before December. | | | | | | | |
| a | Sparse Jungle growth (< 10% ground area covered with Jungle growth) | Ha | 0.2 | 1982.25 | 0.00 | 1982.25 | 1 | 396 |
| b | Very Light Jungle growth (>10% and up to 20% ground area covered with Jungle growth) | Ha | 0.2 | 2979.55 | 0.00 | 2979.55 | 1 | 596 |
| c | Light Jungle Growth (> 20% and upto 30% ground area covered with Jungle growth) with prior written approval of DFO based on the field inspection of DFO. | Ha | 0.6 | 7000.00 | 0.00 | 7000.00 | 1 | 4200 |
| 02.08.03 | Uproot of Stumps (excluding unsuitable patches) to a minimum depth of 45 cm with heavy machinery fitted with 0.90 cum and above capacity bucket, filling the pits caused by uprootal, and levelling. For retrieved encroached area, the approval of Circle Head is required and the approval should indicate clearly the density of stumps or vegetation to be removed through uprootal. The uprootal work can be carried out preferably through tender process. | | | | 0.00 | 0.00 | | |
| a | Sparse Jungle growth (< 10% ground area covered with Jungle growth) | Ha | 0.4 | 5184.30 | 0.00 | 5184.30 | 1 | 2074 |
| b | Very Light Jungle growth (>10% and up to 20% ground area covered with Jungle growth) | Ha | 0.3 | 10034.10 | 0.00 | 10034.10 | 1 | 3010 |
| c | Light Jungle Growth (> 20% and upto 30% ground area covered with Jungle growth) with prior written approval of DFO based on the field inspection of DFO. | Ha | 0.3 | 13044.80 | 0.00 | 13044.80 | 1 | 3913 |
| 02.08.04 | Collection and Removal of uprooted stumps of all sizes, other debris etc. to outside plantation site | | | | | | | |
| a | Sparse Jungle growth (< 10% ground area covered with Jungle growth) | Ha | 0.4 | 5520.10 | 0.00 | 5520.10 | 1 | 2208 |
| b | Very Light Jungle growth (>10% and up to 20% ground area covered with Jungle growth) | Ha | 0.4 | 8759.80 | 0.00 | 8759.80 | 1 | 3504 |
| c | Light Jungle Growth (> 20% and upto 30% ground area covered with Jungle growth) with prior written approval of DFO based on the field inspection of DFO. | Ha | 0.2 | 10213.95 | 0.00 | 10213.95 | 1 | 2043 |
| 02.08.05 | Tilling (Permissible for CA area only) the soil to a depth of 0.45 cm in the affected area (excluding unsuitable patches) with heavy duty machinery fitted with 0.9 cum and above capacity bucket and levelling - Permissible for CA area only (and written approval of Circle head is needed and required budgetary provision has to find place in annual approved plan) and VIP planting area (minimum area should be more than 1 ha). The uprootal and tilling works shall be done preferably through a tender process and the execution of work completed before end of March | | | | | | | |
| a | Sparce jungle growth (<10% ground area covered with jungle growth) | ha | 1 | 16378.65 | 0.00 | 16378.65 | 1 | 16379 |
| Unit Rate for 2019 -20 | | | | | | | | 38680 |
| 10% escalation every year | | | | | | | | |

Forest Divisional Officer,
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| FSR Code | Item of work | Untit | Quantiti | As per FSR | | | | Unit Rate per Ha |
|--|--|-------|----------|---|---------------------------|-------------|-----|------------------|
| | | | | Rate (Rs.) | Agency allowance 25% (Rs) | Total (Rs.) | Per | |
| 02.09.03 | Deep Ploughing the effective (excluding unsuitable patches) plantation area across the slope to a depth of 30 cm with Heavy-duty Tractor of 55 HP and above with Firm Mould Board (FMB) plough. FOR TILLED AREA ONLY | | | | | | | |
| a | Ordinary Soil | Ha | 1 | 3056.00 | 0.00 | 3056 | 1 | 3056 |
| 02.09.01 | Removing congestion of root suckers and other uprooted material hindering the effective ploughing | Ha | 1 | 1053.30 | 0.00 | 1053.30 | 1 | 1053 |
| 02.09.04 | ② Alignment and staking including demarcation of base line for Misc species with espacement 3mX3m [1111 Nos] | No's | 1111 | 85.10 | 0.00 | 85.10 | 100 | 945 |
| 02.09.05 | Cost of preparation of stakes (0.45 m length) and transportation of site | No's | 1111 | 54.25 | 0.00 | 54.25 | 100 | 603 |
| 02.09.06 | Digging of Pits in Ploughed Areas in June - July by adopting 50% of original rate of digging of pits of ordinary soil | | | | | | | |
| b | 45 cm cube size pits | No's | 1111 | 10.15 | 0.00 | 10.15 | 1 | 11277 |
| PLANTING OPERATIONS DURING RAISING YEAR | | | | | | | | |
| 01.03.05 | Cost and transportation of soil mixture for filling half of the pit and spreading around the pit | cum | 0.000 | 310.86 | 0 | 310.86 | 1 | 0 |
| | Transportation of Bag plants / Root trainer plants from nursery site to plantation site including loading and unloading | | | | 0 | 0.00 | | |
| 02.09.07 | b) upto 5 Km lead (15X30 cm (4"X7")bag plants) | No's | 1111 | 109.70 | 0 | 109.70 | 100 | 1219 |
| 02.09.08 | b) 5 Km to 25 Km lead (15X30 cm (4"X7")bag plants) | No's | 1111 | 77.00 | 0 | 77.00 | 100 | 855 |
| 02.09.10 | Internal transport of bag plants/root trainers to plantation points on head loads. | | | | 0 | 0.00 | | |
| b | 15X30 cm (4"X7")bag plants | No's | 1111 | 87.45 | 0.00 | 87.45 | 100 | 972 |
| 02.09.11 | Fortification of seedling with insecticide and treating pits with SSP | | | | | | | |
| | (a) Application of 50 gm of SSP per pit (1 day before planting) for root growth and early establishment of plant after planting. ii) Similarly, the bag plants to be planted will be dipped inside Chloropyriphos solution (5ml Chloropyriphos in 1 lit water) either at nursery site before transport or at plantation site before planting | No's | 1111 | 37.40 | 0.00 | 37.40 | 100 | 416 |
| | (b) Cost of SSP, Chloridine dust or Chloropyriphos | No's | 1111 | 1.00 | 0.00 | 1.00 | 1 | 1111 |
| 02.09.13 | Planting Bag Plants | | | | | | | |
| 02.09.14 | Planting in 45 cm size cubic pit Pit | No's | 1111 | 416.65 | 0.00 | 416.65 | 100 | 4629 |
| | Watering (one time) immediately after planting if the planting takes place on a non-rainy day and if there is no rains after planting for 1-2 days with prior written permission of Circle Head and under intimation to Head Office. Also the date of watering is to be recorded in plantation Journal (Refer PCCF Office Rc. No. 17309/2000/G1, Dt. 16.08.2005 - Circular No. 68/2005/G1) | No's | 1111 | 252.25 | 0.00 | 252.25 | 101 | 2802 |
| 02.09.15 | Replacement of Casualties 20% during Raising & 25% in 1st year (In case of Eucalyptus 10% during raising and no casualty replacement for further maintenance). The casualty replacement should be done in 3 stages at an interval of 15 days immediately after planting during raising year. | | | 50% of rate of original pitting rate during raising year and 100% during maintenance years. Planting, Transportation and Internal transportation as prescribed above. | | | | |
| 02.09.06 | Digging of Pits in Ploughed Areas in June - July by adopting 50% of original rate of digging of pits of ordinary soil - a) 45 cm size cubic pits | No's | 222 | 5.08 | 0.00 | 5.08 | 1 | 1127 |
| 02.09.07, | Transportation of Bag plants / Root trainer plants from nursery site to plantation site including loading and unloading - b) upto 25 Km lead (15X30 cm (4"X7")bag plants) | No's | 222 | 186.70 | 0.00 | 186.70 | 100 | 414 |
| 02.09.08 | | | | | | | | |
| 02.09.10 | Internal transport of bag plants/root trainers to plantation points on head loads - b) 15X30 cm (4"X7")bag plants | No's | 222 | 87.45 | 0.00 | 87.45 | 100 | 194 |
| 02.09.13 | Planting in 45 cm size cubic pit Pit | No's | 222 | 416.65 | 0.00 | 416.65 | 100 | 925 |
| 02.09.16 | Cost of DAP @25gm / planting point | No's | 1111 | 1.00 | 0.00 | 1.00 | 1 | 1111 |
| 02.09.17 | Application of fertilizer in August (30 days after planting) by making 3 holes of 10 cm depth with crow bar holes at a distance of 10 cm away from plant and putting fertilizers and closing. Ensure that the soil is really wet at the time of DAP application. | No's | 1111 | 37.40 | 0.00 | 37.40 | 100 | 416 |
| WEEDING & SOIL WORKING | | | | | | | | |
| 02.09.18 | a) Circular weeding to a radius of 0.50 m around the plant (during July - Aug) | No's | 1111 | 119.00 | 0.00 | 119.00 | 100 | 1322 |
| 02.09.19 | b) Circular weeding cum Deep soil working to a radius of 0.5 m and to a depth of 15 cm (to be done by pick-axe only) without damaging the plant. (during Nov - Dec.) | No's | 1111 | 625.00 | 0.00 | 625.00 | 100 | 6944 |
| 02.09.20 | Inter-ploughing (during November) the effective (excluding unsuitable patches) plantation area across the slope to a depth of 30 cm with Heavy-duty Tractor of 55 HP and above with Firm Mould Board (FMB) plough - a) In Ordinary Soils | Ha | 1 | 2321.40 | 0.00 | 2321.40 | 1 | 2321 |
| 02.09.22 | Uproot of Mahaveera (Hypsium suaveolens) weed with prior written approval of Circle Head and taking photograph before and after uprootal. The weed removal shall be completed before September-end at any cost before inter-ploughing. | Ha | 1 | 3477.05 | 0.00 | 3477.05 | 1 | 3477 |
| | Unit Rate for 2019 - 20 | | | | | | | 47189 |

10% escalation every year.

*District Forest Officer,
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Nizamabad.

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Unit Cost for 1st Year Maintenance of NTSH Plantation (3m X 3 m) SMM per Ha

| FSR Code | Item of work | Unit | Quantit y | As per FSR | | | | Amount (Rs.) |
|-----------------------------------|--|------|--------------|---|---------------------------------|-------------|-----|--------------|
| | | | | Rate (Rs.) | Agency allowence 25% (Rs) | Total (Rs.) | Per | |
| 02.10.01 | Replacement of Casualties 20% during Raising & 25% in 1st year (In case of Eucalyptus 10% during raising and no causality replacement for further maintenance). The causality replacement should be done in 3 stages at an interval of 15 days immediately after planting during raising year. | | | 50% of rate of original pitting rate during raising year and 100% during maintenance years. Planting, Transportation and internal transportation as prescribed above. | | | | |
| 02.09.06 | Digging of Pits in Ploughed Areas in June - July by adopting 50% of original rate of digging of pits of ordinary soil - a) 45 cm size cubic pits | No's | 278 | 10.15 | 0.00 | 10.15 | 1 | 2822 |
| 02.09.07 | Transportation of Bag plants / Root trainer plants from nursery site to plantation site including loading and unloading - b) upto 5 Km lead (15X30 cm (4"X7")bag plants) | No's | 278 | 109.70 | 0.00 | 109.70 | 100 | 305 |
| 02.09.08 | Transportation of Bag plants / Root trainer plants from nursery site to plantation site including loading and unloading - b) beyond 5 km and upto 25 Km lead (15X30 cm (4"X7")bag plants) | No's | 278 | 77.00 | 0.00 | 77.00 | 100 | 214 |
| 02.09.10 | Internal transport of bag plants/root trainers to planting points on head loads - b) 15X30 cm (4"X7")bag plants | No's | 278 | 135.25 | 0.00 | 135.25 | 100 | 376 |
| 02.09.13 | Planting in 45 cm size cubic pit Pit | No's | 278 | 416.65 | 0.00 | 416.65 | 100 | 1158 |
| 02.09.14 | Watering (one time) immediately after planting if the planting takes place on a non-rainy day and if there is no rains after planting for 1-2 days with prior written permission of Circle Head and under intimation to Head Office. Also the date of watering is to be recorded in plantation Journal (Refer PCCF Office Rc. No. 17309/2000/G1, Dt. 16.08.2005 - Circular No. 6B/2005/G1) | No's | 0 | 252.25 | 0.00 | 252.25 | 100 | 0 |
| 02.09.16 | Cost of DAP @25gm / planting point-50% of raising cost | No's | 1111 | 0.50 | | 0.50 | 1 | 556 |
| 02.09.11 | Application of fertilizer in August (30 days after planting) by making 3 holes of 10 cm depth with crow bar holes at a distance of 10 cm away from plant and putting fertilizers and closing. Ensure that the soil is really wet at the time of DAP application. | No's | 1111 | 18.70 | 0.00 | 18.70 | 100 | 208 |
| WEEDING & SOIL WORKING | | | | | | | | |
| 02.09.19 | Circular weeding cum Deep soil working to a radius of 0.5 m and to a depth of 15 cm (to be done by pick-axe only) without damaging the plant during Nov - Dec | No's | 1111 | 625.00 | 0.00 | 625.00 | 100 | 6944 |
| 02.10.04 | Uproot of Mahaveera (Hyptis suaveolens) weed with prior written approval of Circle Head and taking photograph before and after uprootal. The weed removal shall be completed before September-end at any cost before inter-ploughing. | ha | 0.7 | 3477.05 | 0.00 | 3477.05 | 1 | 2434 |
| 02.10.05 | Inter-ploughing (during September) the effective plantation area (excluding unsuitable patches) across the slope to a depth of 30 cm with Heavy-duty Tractor of 55 HP and above with Firm Mould Board (FMB) plough. | ha | 1 | 2321.40 | 0.00 | 2321.40 | 1 | 2321 |
| 02.10.06 | Pruning of lower branch initials of Timber and NTFP species by scicature upto 1/3 rd height (to be done during July - Aug) | No's | 1111 | 118.35 | 0.00 | 118.35 | 100 | 1315 |
| Unit Rate for 2019 -20 | | | | | | | | |
| 10% escalation every year | | | | | | | | |

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Unit Cost for 2nd Year Maintenance of NTSH Plantation (3 m X 3 m) SMM per Ha

| FSR Code | Item of work | Unit | Quantity | As per FSR | | | | Amount (Rs.) |
|-------------------------------|--|------|----------|------------|---|-------------|-----|--------------|
| | | | | Rate (Rs.) | Agency allowance 25% (Rs) | Total (Rs.) | Per | |
| 02.10.01 | Replacement of Casualties 20% during Raising & 25% in 1st year (In case of Eucalyptus 10% during raising and no causality replacement for further maintenance). The causality replacement should be done in 3 stages at an interval of 15 days immediately after planting during raising year. - 5% proposed | | | | 50% of rate of original pitting rate during raising year and 100% during maintenance years. Planting, Transportation and internal transportation as prescribed above. | | | |
| 02.09.06 | Digging of Pits in Ploughed Areas in June - July by adopting 50% of original rate of digging of pits of ordinary soil - a) 45 cm size cubic pits | No's | 56 | 10.15 | 0.00 | 10.15 | 1 | 568 |
| 02.09.07 | Transportation of Bag plants / Root trainer plants from nursery site to plantation site including loading and unloading - b) upto 5 Km lead (15X30 cm (4"X7")bag plants) | No's | 56 | 109.70 | 0.00 | 109.70 | 100 | 61 |
| 02.09.08 | Transportation of Bag plants / Root trainer plants from nursery site to plantation site including loading and unloading - b) beyond 5 km and upto 25 Km lead (15X30 cm (4"X7")bag plants) | No's | 56 | 77.00 | 0.00 | 77.00 | 100 | 43 |
| 02.09.10 | Internal transport of bag plants/root trainers to planting points on head loads - b) 15X30 cm (4"X7")bag plants | No's | 56 | 135.25 | 0.00 | 135.25 | 100 | 76 |
| 02.09.13 | Planting in 45 cm size cubic pit Pit | No's | 56 | 416.65 | 0.00 | 416.65 | 100 | 233 |
| 02.10.05 | Inter-ploughing (during September) the effective plantation area (excluding unsuitable patches) across the slope to a depth of 30 cm with Heavy-duty Tractor of 55 HP and above with Firm Mould Board (FMB) plough. | ha | 1 | 2321.40 | 0.00 | 2321.40 | 1 | 2321 |
| 02.11.02 | Circular weeding cum Deep soil working to a radius of 0.5 m and to a depth of 15 cm (to be done by pick-axe only) without damaging the plant. (July-Aug) | No's | 1111 | 625.00 | 0.00 | 625.00 | 100 | 6944 |
| 02.11.03 | Pruning of lower branch initials of Timber and NTFP species by scicature upto 1/3 rd height (to be carried out during July-Aug) | No's | 1111 | 118.35 | 0.00 | 118.35 | 100 | 1315 |
| 02.01.03 | Formation of Sector Lines / Fire Lines to a width of 3 m by giving surface treatment (sector to be in conformity with slope direction). All stumps to be cut to ground level. | Rmt | 100 | 5.85 | 0.00 | 5.85 | 1 | 585 |
| 02.10.04 | Uprootal of Mahaveera (Hyptis suaveolens) weed with prior written approval of Circle Head and taking photograph before and after uprootal. The weed removal shall be completed before September-end at any cost before inter-ploughing. | ha | 0.6 | 3477.05 | 0.00 | 3477.05 | 1 | 2086 |
| Unit Rate for 2019 -20 | | | | | | | | 14232 |
| 10% escalation every year | | | | | | | | |

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Unit Cost for 3rd Year Maintenance of NTSH Plantation (3m X 2m) SMM per Ha

| FSR Code | Item of work | Unit | Quantity | Unit Rate per Ha | | | | Amount (Rs.) |
|-------------------------------|--|------|----------|------------------|---------------------------|-------------|-----|--------------|
| | | | | Rate (Rs.) | Agency allowance 25% (Rs) | Total (Rs.) | Per | |
| 02.11.02 | Circular weeding cum Deep soil working to a radius of 0.5 m and to a depth of 15 cm (to be done by pick-axe only) without damaging the plant. (July-Aug) | No's | 1111 | 625.00 | 0 | 625.00 | 100 | 694 |
| 02.11.03 | Pruning of lower branch initials of Timber and NTFP species by scicature upto 1/3 rd height (to be done during July - Aug) | No's | 1111 | 118.35 | 0 | 118.35 | 100 | 1315 |
| 03.05.01 | Maintenance of fire lines (5.00 mtr width) including cutting back of rank growth and burning - propotionate cost - 0.60 times | Rmt | 100 | 347.58 | 0 | 347.58 | 100 | 348 |
| Unit Rate for 2019 -20 | | | | | | | | 8607 |

10% escalation every year


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Unit Cost for 4th Year Maintenance of NTSH Plantation (3m X 3m) SMM per Ha

| FSR Code | Item of work | Unit | Quantity | Unit Rate per Ha | | | | Amount (Rs.) |
|-------------------------------|--|------|----------|------------------|---------------------------|-------------|-----|--------------|
| | | | | Rate (Rs.) | Agency allowance 25% (Rs) | Total (Rs.) | Per | |
| 02.11.02 | Circular weeding cum Deep soil working to a radius of 0.5 m and to a depth of 15 cm (to be done by pick-axe only) without damaging the plant. (July-Aug) | No's | 1111 | 625.00 | 0 | 625.00 | 100 | 6944 |
| 02.11.03 | Pruning of lower branch initials of Timber and NTFP species by scicature upto 1/3 rd height (to be done during July - Aug) | No's | 1111 | 118.35 | 0 | 118.35 | 100 | 1315 |
| 03.05.01 | Maintenance of fire lines (5.00 mtr width) including cutting back of rank growth and burning - proportionate cost - 0.60 times | Rmt | 100 | 347.58 | 0 | 347.58 | 100 | 348 |
| Unit Rate for 2019 -20 | | | | | | | | 8607 |
| 10% escalation every year | | | | | | | | |

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Unit Cost for 5th Year Maintenance of NTSH Plantation (3m X 3m) SMM per Ha

| FSR Code | Item of work | Unit | Quantit y | Unit Rate per Ha | | | | Amount (Rs.) |
|----------|--|------|--------------|------------------|---------------------------------|-------------|-----|--------------|
| | | | | Rate (Rs.) | Agency allowence 25% (Rs) | Total (Rs.) | Per | |
| 02.11.02 | Circular weeding cum Deep soil working to a radius of 0.5 m and to a depth of 15 cm (to be done by pick-axe only) without damaging the plant. (July-Aug)- the work will be carried out between 1 m to 1.1 m in a ring formation- Hence 25% of cost adopted | No's | 1111 | 625.00 | 0 | 625.00 | 100 | 6944 |
| 03.05.01 | Maintenance of fire lines (5.00 mtr width) including cutting back of rank growth and burning - proportionate cost - 0.60 times | Rmt | 100 | 347.58 | 0 | 347.58 | 100 | 348 |
| | Unit Rate for 2019-20 10% escalation every year | | | | | | | 7292 |

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192

Unit Cost for 6th Year Maintenance of NTSH Plantation (3m X 3m) SMM per Ha

| FSR Code | Item of work | Unit | Quantity | Unit Rate per Ha | | | | Amount (Rs.) |
|--|--|------|----------|------------------|---------------------------|-------------|-----|--------------|
| | | | | Rate (Rs.) | Agency allowance 25% (Rs) | Total (Rs.) | Per | |
| 02.11.03 | Pruning of lower branch initials of Timber and NTFP species by scicature upto 1/3 rd height (to be done during July - Aug) | No's | 1111 | 118.35 | 0 | 118.35 | 100 | 1315 |
| 03.05.01 | Maintenance of fire lines (5.00 mtr width) including cutting back of rank growth and burning - proportionate cost - 0.60 times | Rmt | 100 | 347.58 | 0 | 347.58 | 100 | 348 |
| Unit Rate for 2019 -20 10% escalation every year | | | | | | | | 1663 |


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199

Unit Cost for 7th Year Maintenance of NTSH Plantation (3m X 3m) SMM per Ha

| FSR Code | Item of work | Unit | Quantit y | Unit Rate per Ha | | | | Amount (Rs.) |
|-------------------------------|--|------|--------------|------------------|---------------------------------|-------------|-----|--------------|
| | | | | Rate (Rs.) | Agency allowence 25% (Rs) | Total (Rs.) | Per | |
| 02.11.02 | Circular weeding cum Deep soil working to a radius of 0.5 m and to a depth of 15 cm (to be done by pick-axe only) without damaging the plant. (July-Aug)- the work will be carried out between 1 m to 1.1 m in a ring formation- Hence 25% of cost adopted | No's | 1111 | 625.00 | 0 | 625.00 | 100 | 6944 |
| 03.05.01 | Maintenance of fire lines (5.00 mtr width) including cutting back of rank growth and burning - proportionate cost - 0.60 times | Rmt | 100 | 347.58 | 0 | 347.58 | 100 | 348 |
| Unit Rate for 2019 -20 | | | | | | | | 7292 |
| 10% escalation every year | | | | | | | | |

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201

Unit Cost for 8th Year Maintenance of NTSH Plantation (3m X 3m) SMM per Ha

| FSR Code | Item of work | Unit | Quantity | Unit Rate per Ha | | | | Amount (Rs.) |
|-------------------------------|--|------|----------|------------------|---------------------------|-------------|-----|--------------|
| | | | | Rate (Rs.) | Agency allowance 25% (Rs) | Total (Rs.) | Per | |
| 02.11.03 | Pruning of lower branch initials of Timber and NTFP species by scicature upto 1/3 rd height (to be done during July - Aug) | No's | 1111 | 118.35 | 0 | 118.35 | 100 | 1315 |
| 03.05.01 | Maintenance of fire lines (5.00 mtr width) including cutting back of rank growth and burning - proportionate cost - 0.60 times | Rmt | 100 | 347.58 | 0 | 347.58 | 100 | 348 |
| Unit Rate for 2019 -20 | | | | | | | | 1663 |
| 10% escalation every year | | | | | | | | |


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203

Unit Cost for 9th Year Maintenance of NTSH Plantation (3m X 3m) SMM per Ha

| FSR Code | Item of work | Unit | Quantity | Unit Rate per Ha | | | | Amount (Rs.) |
|-------------------------------|--|------|----------|------------------|---------------------------|-------------|-----|--------------|
| | | | | Rate (Rs.) | Agency allowance 25% (Rs) | Total (Rs.) | Per | |
| 02.11.02 | Circular weeding cum Deep soil working to a radius of 0.5 m and to a depth of 15 cm (to be done by pick-axe only) without damaging the plant. (July-Aug)- the work will be carried out between 1 m to 1.1 m in a ring formation- Hence 25% of cost adopted | No's | 1111 | 625.00 | 0 | 625.00 | 100 | 6944 |
| 03.05.01 | Maintenance of fire lines (5.00 mtr width) including cutting back of rank growth and burning - proportionate cost - 0.60 times | Rmt | 100 | 347.58 | 0 | 347.58 | 100 | 348 |
| Unit Rate for 2019 -20 | | | | | | | | 7292 |
| 10% escalation every year | | | | | | | | |

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205

Unit Cost for 10th Year Maintenance of NTSH Plantation (3m X 3m) SMM per Ha

| FSR Code | Item of work | Unit | Quantity | As per FSR | | | | Amount (Rs.) |
|-------------------------------|--|------|----------|------------|---------------------------|-------------|-----|--------------|
| | | | | Rate (Rs.) | Agency allowance 25% (Rs) | Total (Rs.) | Per | |
| 02.11.03 | Pruning of flower branch initials of Timber and NTFP species by scicature upto 1/3 rd height (to be done during July - Aug) | No's | 1111 | 118.35 | 0.000 | 118.35 | 100 | 1315 |
| 03.05.01 | Maintenance of fire lines (5.00 mtr width) including cutting back of rank growth and burning - proportionate cost - 0.60 times | Rmt | 100 | 347.58 | 0.000 | 347.58 | 100 | 348 |
| Unit Rate for 2019 -20 | | | | | | | | 1663 |

10% escalation every year

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