

# UNIT COST FOR RAISING OF PRIMARY BEDS

| Sl. No. | FSR-2019-20 Code | Item of work  | Unit    | Rate (Rs.) | Amount (Rs.)  |
|---------|------------------|---|---------|------------|---------------|
| 1       | 2                | 3   | 4       | 5          | 7             |
| 1       | 01.00.00         | <b>PRIMARY BEDS</b> 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       | 4.95          |
| 3       | 01.01.03         | Digging soil of the demarcated beds of 1x1x0.30 m size  | Bed     | 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      | 28.85         |
| 5       | 01.01.05         | For every extra km beyond 5 km upto 25 km   | Bed     | 1.15       | 1.15          |
| 6       | 01.01.06         | Cost and transport of 0.025 cum FYM   | Bed     | 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      | 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      | 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     | 350.00     | 350.00        |
| 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      | 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      | 13.90         |
| 13      | 01.01.14         | Kerbing the primary beds all around with Cement Bricks (in permanent nurseries only), if required. In all such permanent primary beds, no incurring of expenditure for making the primary beds every year is permitted except for cost of fungicides.   | Bed     | 39.00      | 39.00         |
| 14      | 01.01.15         | Cost of chemicals, fungicide and insecticide  | Bed     | 39.00      | 39.00         |
| 16      |                  | Electrical Charges  |         | 32.00      | 32.00         |
|         |                  | <b>Total</b>  |         |            | <b>607.40</b> |
|         |                  | <b>Rasing of seedlings 110% for abtaining 100%</b>  |         | 10%        | <b>60.74</b>  |
|         |                  | <b>Total</b>  |         |            | <b>668.14</b> |
|         |                  | <b>cost of each plant (2000 plants per bed)</b>   |         |            | <b>0.33</b>   |

*Sunder*  
District forest officer,  
Suryapet



# 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  |              |
|         |                  | <b>BAG PLANT NURSERY:</b> 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. |      |          |            |      |              |
|         |                  | <b>Raising of Nursery in Polythene bags</b> 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    | 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    | 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 | 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 | 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 | 1518.14      |
| 6       | 01.03.09         | Alignment of beds including alignment of inspection paths etc  | Bed  | 1        | 7.60       | 1    | 7.60         |
| 7       | 01.03.10         | Pricking out seedlings from primary beds and transplanting into polybags   | No's | 2600     | 140.70     | 1000 | 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 | 217.62         |
| 9  | 01.03.12 | <b>Watering the plants (2 Months) twice a day from Feb-March</b> - a) Manually with rose cans or finely perforated nozzle attached to a hose pipe  | Bed  | 4    | 273.10  | 1    | 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    | 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    | 234.25         |
| 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    | 66.50          |
| 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    | 34.00          |
| 14 | 01.03.18 | Weeding in the space between the beds, inspection path and surroundings of Nursery   | Bed  | 2    | 34.20   | 1    | 68.40          |
| 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  | 350.18         |
| 16 |          | Electricity charges  |      |      |         |      | 300.00         |
|    |          | <b>Total</b>   |      |      |         |      | <b>5719.18</b> |
| 17 |          | Add casualty 10%   |      |      |         |      | 751.09         |
|    |          | <b>2019-20 Grand Total</b>   |      |      |         |      | <b>6470.27</b> |
|    |          | <b>cost of each plant (2600 plants per bed)</b>  |      |      |         |      | <b>3.8060</b>  |

10% escalation every year

*S. S. S. S.*  
District Forest Officer,  
Suryapet

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

| Sl. No. | FSR-2019-20 Code | Item of work  | Unit | Quantity | As per FSR |     | Amount (Rs.)   |
|---------|------------------|---|------|----------|------------|-----|----------------|
|         |                  |   |      |          | Rate (Rs)  | Per |                |
|         |                  | <b>Maintenance of 4"x7" or 5"x9" bag-plants from April – August - Watering the plants twice a day from April – August</b>   |      |          |            |     |                |
| 1       | 01.03.19         | (a) Manually with rose cans or finely perforated nozzle attached to a hose pipe   | Bed  | 5        | 273.1      | 1   | 1365.50        |
| 2       | 01.03.20         | Weeding the beds during May & July  | Bed  | 2        | 50         | 1   | 100.30         |
| 3       | 01.03.21         | Shifting, grading and rearrangement in beds   | Bed  | 1        | 234        | 1   | 234.25         |
| 4       |                  | Electricity charges   |      |          |            |     | 300.00         |
| 5       | 01.05.04         | <b>Cost of Protection:</b> 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 | 350.18         |
|         |                  | <b>2019-20 Total</b>  |      |          |            |     | <b>2350.23</b> |
|         |                  | <b>cost of each plant (2600 plants per bed)</b>   |      |          |            |     | <b>0.9039</b>  |

10% escalation every year

*Sanjay  
District forest officer  
Suryapet*



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

| Sl. No. | FSR-2019-20 Code | Item of work  | Unit | Quantity | As per FSR |      | Amount (Rs.)   |
|---------|------------------|---|------|----------|------------|------|----------------|
|         |                  |   |      |          | Rate (Rs)  | Per  |                |
|         |                  | <b>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).</b>  |      |          |            |      |                |
|         |                  | <b>Cost and Transport of ingredients for Potting Mixture:</b> Red Soil, tank-silt / clay 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.   |      |          |            |      |                |
|         | <b>01.03.24</b>  | <b>Transportation of soil mixture ingredients</b>   |      |          |            |      |                |
|         |                  | <b>Distance up to 5 km</b>  |      |          |            |      |                |
| 1       | c                | 4" x 7" to 6" x 12" polybags (2.15 - 0.56 = 1.59 cum)   | No   | 1100     | 560.00     | 1000 | 616.00         |
|         | <b>01.03.25</b>  | <b>Transportation of soil mixture ingredients more than 5 km distance and upto 25 km distance</b>   |      |          |            |      |                |
| 2       | c                | 4" x 7" to 6" x 12" polybags (2.15 - 0.56 = 1.59 cum)   | No   | 1100     | 14.60      | 1000 | 16.06          |
|         | <b>01.03.27</b>  | <b>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)</b>  |      |          |            |      |                |
| 3       | c                | 4" x 7" to 6" x 12" polybags (2.15 - 0.56 = 1.59 cum)   | No   | 1100     | 998.45     | 1000 | 1098.30        |
|         | <b>01.03.33</b>  | <b>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</b>   |      |          |            |      |                |
| 4       |                  | <b>Weeding the plants (2 weedings)</b>  | Bed  | 2        | 50.15      | 1    | 100.30         |
| 5       | <b>01.03.34</b>  | <b>Shifting, Grading and rearranging in secondary beds - One Grading in February</b>  | Bed  | 2        | 234.25     | 1    | 468.50         |
|         | <b>01.03.35</b>  | <b>Watering the plants manually twice a day (from Novemebr - March) with rose spray or finely perforated nozzle attached to a hose pipe.</b>  |      |          |            |      |                |
| 6       | a                | Manually with rose spray or finely perforated nozzle attached to a hose pipe  | Bed  | 5        | 273.15     | 1    | 1365.75        |
|         | <b>01.03.37</b>  | <b>Cost of foliar nutritient formulations like multiplex or NPK-19:19:19; fungicides and insecticides from July to Oct.</b>   |      |          |            |      | 30.00          |
| 7       | <b>01.05.04</b>  | <b>Cost of Protection:</b> 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 bedsor 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  | 350.18         |
| 8       |                  | Cost of the ploythene bags  |      |          |            |      | 2340.00        |
| 9       | <b>01.03.39</b>  | Electricity charges   |      |          |            |      | 500.00         |
|         |                  | <b>Total</b>  |      |          |            |      | <b>6885.09</b> |
|         |                  |   |      |          |            |      | 344.254        |
| 10      | <b>01.03.38</b>  | Contingencies @ 5%  |      |          |            |      | <b>7229.34</b> |
|         |                  | <b>2019-20 Total for 1100 plants</b>  |      |          |            |      | <b>6.5721</b>  |
|         |                  | <b>cost of each plant</b>   |      |          |            |      |                |

10% escalation every year

**UNIT COST FOR MAINTENANCE OF BAG PLANTS (April to August)**

| Sl. No. | FSR-2019-20 Code | Item of work  | Unit           | Quantity | As per FSR |     | Amount (Rs.)   |
|---------|------------------|---|----------------|----------|------------|-----|----------------|
|         |                  |   |                |          | Rate (Rs.) | Per |                |
|         | <b>01.04.00</b>  | <b>MAINTAINANCE OF BAG PLANTS NURSERY UPTO PLANTING SEASON (APRIL TO AUGUST)</b> for 10 m X 1 m size secondary beds (2600 Nos of 4" X 7" bags; 1700 Nos of 5" X9" bags ; 1100 Nos. of 6"X12" bags; 800 Nos. of 8"X12" bags; 400 Nos. of 10"x16" bags per bed)   |                |          |            |     |                |
|         | <b>01.04.01</b>  | Watering polybag secondary beds twice a day for 4 months  |                |          |            |     |                |
| 1       | <b>a</b>         | Manually with rose spray or finely perforated nozzle attached to a hose pipe  | Bed/month      | 4        | 273.10     | 1   | 1092.40        |
| 2       | <b>01.04.02</b>  | Weeding once during maintenance year  | Bed/weeding    | 1        | 50.15      | 1   | 50.15          |
| 3       | <b>01.04.03</b>  | Shifting, grading and rearrangement in beds   | Bed/shifting   | 2        | 234.25     | 1   | 468.50         |
| 4       | <b>01.04.05</b>  | Cost of foliar nutrient formulations like multiplex or NPK-19:19:19; fungicides and insecticides from April to August   | As per actuals | 1        | 20.00      | 1   | 20.00          |
|         | <b>01.04.06</b>  | Cowdung Slurry application (One can apply chemical foliar spray or apply cowdung slurry - not both)   |                |          |            |     |                |
| 5       | <b>a</b>         | Cost and transportation of fresh cowdung  | As per actuals | 1        | 25.00      | 1   | 25.00          |
| 6       | <b>01.04.07</b>  | Weeding in the space between the beds, inspection path and surroundings of Nursery  | Bed            | 1        | 27.60      | 1   | 27.60          |
| 7       | <b>01.05.04</b>  | <b>Cost of Protection:</b> 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. | Watcher/ month | 4        | 8754.60    | 100 | 350.18         |
| 8       | <b>01.04.09</b>  | Electricity charges   |                |          | 500.00     |     | 500.00         |
|         |                  | <b>Total</b>  |                |          |            |     | <b>2533.83</b> |
| 9       | <b>01.04.08</b>  | Contingencies @ 5%  |                |          |            |     | <b>126.69</b>  |
|         |                  | <b>2019-20 Total</b>  |                |          |            |     | <b>2660.53</b> |
|         |                  | <b>cost of each plant (1100 Plants per bed)</b>   |                |          |            |     | <b>2.4187</b>  |

10% escalation every year

*Imteaz*  
District forest officer,  
Suryapet



**UNIT COST FOR MAINTENANCE OF BAG PLANTS (September to till disposal)**

| Sl. No. | FSR-2019-20 Code | Item of work  | Unit          | Quantity | As per FSR |     | Amount (Rs.)   |
|---------|------------------|---|---------------|----------|------------|-----|----------------|
|         |                  |   |               |          | Rate (Rs.) | Per |                |
|         |                  | <b>MAINTENANCE OF BAG NURSERY FROM SEPTEMBER TO TILL DISPOSAL</b>   |               |          |            |     |                |
| 1       | 01.05.01         | Watering plants for 10 m X 1 m size secondary bed   | Bed/month     | 4        | 168.70     | 1   | 674.80         |
| 2       | 01.05.02         | Shifting, grading and rearrangement in beds   | Bed/weeding   | 1        | 234.25     | 1   | 234.25         |
| 3       | 01.05.04         | <b>Cost of Protection:</b> 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. | Watcher/month | 5        | 8754.60    | 100 | 437.73         |
|         |                  | <b>Total</b>  |               |          |            |     | <b>1346.78</b> |
|         |                  | <b>cost of each plant (1100 Plants per bed)</b>   |               |          |            |     | <b>1.2243</b>  |

10% escalation every year


*T. Indrajit*  
District forest officer  
Suryapet

**Advance Operations under Labour Intensive Method with 5m x 5m espacement**

Unit area 1.00 Ha,

| FSR Item No. | Description   | Quantity | Rate (Rs.) | Per        | Amount (Rs.) |
|--------------|---|----------|------------|------------|--------------|
| 02.01.00     | <b>ADVANCE OPERATION (PRE-PLANTING OPERATION)</b> - All advance-operation works of plantations to be raised shall be completed before March. Perambulation of site, preparing site inspection report including type of vegetation and density, approval of site suitability and the category of jungle growth clearance, taking the images of the existing vegetation, preparation of treatment plan shall be prepared and approved in writing by DFO before taking up advance operation. |          |            |            |              |
| 02.01.01     | 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 latest by December end.   | 1        | 356.65     | Plantation | 357          |
| 02.01.02     | 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. All the above operations should be completed before December.    |          |            |            |              |
|              | (a) Sparse Jungle growth (<10% ground area covered with Jungle growth)  | 0.40     | 1982.25    | Ha         | 793          |
|              | (b) Very light jungle growth (>10% and upto 20% covered with Jungle growth)   | 0.40     | 2979.55    | Ha         | 1192         |
|              | (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.   | 0.20     | 7000       | Ha         | 1400         |
| 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.   | 100      | 5.85       | Rmt        | 585          |
| 02.01.05     | Alignment and stacking including demarcation of baseline  | 200      | 85.1       | 100 No's   | 170          |
|              | (a) 5x5 m espacement  | 200      | 54.25      | 100 No's   | 109          |
| 02.01.04     | Cost of preparation of stakes (0.45 m length) and transportation to site  |          |            |            |              |
| 02.01.06     | Digging of pits during January to March   | 200      | 57.72      | Each       | 11544        |
|              | (b) (ii) 60 cm cube size in hard gravelly and moram Soil (Manual) - Rs.24.35 for 45 cm cube pit   |          |            |            |              |
|              |   | 43.2     | 169.00     | cum        | 7301         |
| SSR          | Cost and transportation of soil mixtue for filling half of the pit and spreading around the pit - 0.6 cm x 0.6 cm x 0.6 cm = 0.216 cum  |          |            |            |              |
|              |   |          |            | Total      | 23451        |
|              |   |          |            |            | 23451        |

Unit Rate for 2019-20

  
District Forest Officer,  
Surya pet

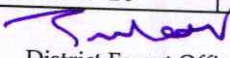


**Raising of Plantation under Labour Intensive Method with 5m x 5m espacement**

Unit area 1.00 Ha.

| FSR Item No. | Description  | Quantity   | Rate (Rs.)  | Per       | Amount (Rs.) |
|--------------|--|--|-------------|-----------|--------------|
| 02.02.00     | <b>Planting Operations during raising year</b>   |  |             |           |              |
| 02.02.01     | Transportation of planting stock (including loading and unloading upto a distance of 5 Kms)  |  |             |           |              |
|              | (b) 15 X 30 cm (6"X12") bag plants   | 200  | 109.7       | 100 Nos., | 219.00       |
| 02.02.02     | Transportation of Planting Stock (including loading and unloading) more than 5 km distance and upto 25 km distance   |  |             |           |              |
|              | (b) 15 X 30 cm (6"X12") bag plants   | 200  | 77.00       | 100 Nos., | 154.00       |
| 02.02.03     | Transportation of Planting Stock (including loading and unloading) more than 25 km distance and for every extra km (with prior written approval of Circle Head)  |  |             |           |              |
|              | (b) 15 X 30 cm (6"X12") bag plants   | 200  | 39.00       | 100 Nos., | 78.00        |
| 02.02.04     | Internal transportation to planting points on head loads   |  |             |           |              |
|              | (b) 15 X 30 cm (6"X12") bag plants   | 200  | 87.45       | 100 Nos., | 175          |
|              | <i>PLANTING: Seedlings of local species of secondary hardwood along with their associates and NTFP species will have to be chosen for planting. The minimum height of the planting stock to be planted is 0.75 m - 1m height (excluding the height of the bag)</i>   |  |             |           |              |
| 02.02.05     | Application of 50 gm of SSP per pit (1 day before planting) for root growth and early establishment of plant after planting. Similarly, the bag plants to be planted are to be dipped inside Chloropyriphos solution (5 ml of Chloropyriphos in 1 lit water) either at nursery site before transport or at plantation site before planting | 200  | 37.40       | 100 Nos., | 75           |
| 02.02.06     | Cost of SSP, Chloridine dust (50 gm) or Chloropyriphos (Rs. 2/- per plant)   | As per actual  | 800         | Ha.       | 2222         |
| 02.02.07     | Planting in 60 cm <sup>3</sup> Pit   | 200  | 924.65      | 100 Nos., | 1849         |
| 02.01.04     | ii) Cost of preparation of stakes (2.0 m length) and transportation to site (subject to condition that the seedling height is 1.5m to 2.0m height)   | 200  | 860.00      | 100.00    | 1720         |
| 02.02.09     | Watering (one time) immediately after planting if the planting takes place on a non-rainy days and during dry spell - 4 waterings  | 200  | 1009.00     | 100 Nos., | 2018         |
| 02.02.10     | Replacement of Casualties: 20% during Raising Year & 25% in 1 <sup>st</sup> year The casualty replacement should be done in 3 stages at an interval of 15 days immediately after planting during raising year.   | 50% of unit rate of original pitting during raising year and 100% during maint. year. Planting, transportation and internal transportation same as adopted during raising year |             |           |              |
| 02.01.06     | Digging of pits (b) (ii) 60 cm cube size in hard gravelly and moram Soil (Manual) - Rs.24.35 for 45 cm cube pit  | 40   | 28.85925926 | Each      | 1154         |
| 02.02.01     | Transportation of planting stock (including loading and unloading upto a distance of 5 Kms)  | 40   | 109.7       | 100 Nos., | 44           |
| 02.02.02     | Transportation of Planting Stock (including loading and unloading) more than 5 km distance and upto 25 km distance   | 40   | 77.00       | 100 Nos., | 31           |

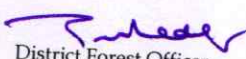
| ESR Item No. | Description  | Quantity | Rate (Rs.)            | Per       | Amount (Rs.) |
|--------------|--|----------|-----------------------|-----------|--------------|
| 02.02.03     | Transportation of Planting Stock (including loading and unloading) more than 25 km distance and for every extra km (with prior written approval of Circle Head)  | 40       | 39.00                 | 100 Nos., | 16           |
| 02.02.04     | Internal transportation to planting points on head loads   | 40       | 87.45                 | 100 Nos., | 35           |
| 02.02.07     | (b) Planting in 60 cm <sup>3</sup> Pit   | 40       | 924.65                | 100 Nos., | 370          |
| 02.02.11     | Cost of DAP @ 25 gm / planting point   | 200      | 1.20                  | Each      | 240          |
| 02.02.12     | 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. | 200      | 37.40                 | 100 Nos., | 75           |
| 02.02.13     | Weeding and saucer formation to a radius of 0.5 mts around the plant immediately after planting (i.e) during June.   | 200      | 119.05                | 100 Nos., | 238          |
| 02.02.14     | Circular weeding to a radius of 0.50 m around the plant (i.e., Aug - Sept)   | 200      | 119.05                | 100 Nos., | 238          |
| 02.02.15     | Deep soil working to a radius of 0.5 m and to a depth of 10 cm (to be done by pick-axe only) without damaging the plant (to be carried out during Nov - Dec)   |          |                       |           |              |
|              | (b) For hard gravelly soil   | 200      | 625.00                | 100 Nos., | 1250         |
| 02.02.16     | Cutting of coppice growth flush to the ground to reduce the competition over the entire area duly retaining useful species after planting and placing the cut material in between the planting rows (to be undertaken during July - August)                      |          |                       |           |              |
|              | (a) Low rainfall zone < 800 m  | 1        | 929.00                | Ha.       | 929          |
| 02.09.25     | Cost of Protection: (a) For fenced area: One Casual labour is allowed for the plantation more than 10.00 ha but less than 30.00 ha. in extent and two Casual labourers are allowed for more than 30.00 ha. Rs.8757 x 12 *2/30                                    | 1        | 7006                  | Ha        | 7006         |
|              |  |          | Total                 |           | 20136        |
|              |  |          | Unit Rate for 2019-20 |           | 20136        |

  
 District Forest Officer,  
 Surya pet



**1st year maintenance of Plantation under Labour Intensive Method with 5m x 5m espacement**

| FSR Item No. | Description  | Unit area 1.00 Ha.   |            |           |              |
|--------------|--|--|------------|-----------|--------------|
|              |  | Quantity   | Rate (Rs.) | Per       | Amount (Rs.) |
| 01.03.05     | Cost of transportation of soil mixtue for filling the pit and spreading around the pit - 25 % of pit - 0.25 x 0.6 cm x 0.6 cm x 0.6 cm   | 21.6   | 352.23     | cum       | 7608         |
| 02.03.01     | <b>Replacement of Casualties:</b> 25% in 1st year (In case of Eucalyptus: no casualty replacement). The list of all casualty points shall be prepared by concerned FRO by and made a report to DFO latest by end of May. The pitting of all such casualty points shall be over by end of June. The casualty replacement shall be completed by end of July. | Pitting, planting, transportation and internal transportation same as prescribed in fresh planting |            |           |              |
| 02.01.06     | Digging of pits (b) (ii) 60 cm cube size in hard gravelly and moram Soil (Manual) - Rs.24.35 for 45 cm cube pit  | 50   | 57.72      | Each      | 2886         |
| 02.02.01     | Transportation of planting stock (including loading and unlaoding upto a distance of 5 Kms)  | 50   | 109.7      | 100 Nos., | 55           |
| 02.02.02     | <b>Transportation of Planting Stock</b> (including loading and unloading) more than 5 km distance and upto 25 km distance  | 50   | 77         | 100 Nos., | 39           |
| 02.02.03     | Transportation of Planting Stock (including loading and unloading) more than 25 km distance and for every extra km (with prior written approval of Circle Head)  | 50   | 39         | 100 Nos., | 20           |
| 02.02.04     | Internal transportation to planting points on head loads   | 50   | 87.45      | 100 Nos., | 44           |
| 02.02.07     | (b) Planting in 60 cm <sup>3</sup> Pit   | 50   | 924.65     | 100 Nos., | 462          |
| 02.02.11     | Cost of DAP @ 25 gm / planting point   | 200  | 1.12       | Each      | 224          |
| 02.02.09     | Watering (one time) immediately after planting if the planting takes place on a non-rainy days and during dry spell - 4 waterings  | 200  | 1009.00    | 100 Nos., | 2018         |
| 02.03.02     | Weeding and saucer formation to a radius of 0.5 mts around the plant immediately after planting (i.e) during June.   | 200  | 119.05     | 100 Nos., | 238          |
| 02.03.03     | Circular weeding to a radius of 0.50 m around the plant (i.e. Aug - Sept)  | 200  | 119.05     | 100 Nos., | 238          |
| 02.03.04     | Deep soil working to a radius of 0.5 m and to a depth of 10 cm (to be done by pick-axe only) without damaging the plant (to be carried out during Nov - Dec)   |  |            |           |              |
|              | (b) For hard gravelly soil   | 200  | 625.00     | 100 Nos., | 1250         |
| 02.03.05     | Cutting of coppice growth flush to the ground to reduce the competition over the entire area duly retaining useful species after planting and placing the cut material in between the planting rows (to be undertaken during July -August)   |  |            |           |              |
|              | (a) Low rainfall zone < 800 mm   | 1  | 929.00     | Ha.       | 929          |
| 02.03.06     | <b>Pruning of lower branch initials</b> of Timber and NTFP species by scicature upto 1/3 rd height during October  | 200  | 118.35     | 100 Nos., | 237          |
| 03.05.01     | Maintenance of fire lines (5.00 mtr width) including cutting back of rank growth and burning - propotionate cost - 0.60 times  | 100  | 579.30     | 100 Rmt   | 579          |
| 02.10.09     | <b>Cost of Protection:</b> (a) For fenced area: One Casual labour is allowed for the plantation more than 10.00 ha but less than 30.00 ha. in extent and two Casual labourers are allowed for more than 30.00 ha. Rs.8757 x 12 *2/30   | 1  | 7006       | Ha        | 7006         |
|              | <b>Total</b>   |  |            |           | <b>23833</b> |
|              | <b>Unit Rate for 2019-20</b>   |  |            |           | <b>23833</b> |


  
District Forest Officer,  
Surya pet



**2nd year maintenance Plantation under Labour Intensive Method with 5m x 5m espacement**

*Unit area 1.00 Ha,*


| FSR Item No. | Description  | Quantity  | Rate (Rs.)            | Per       | Amount (Rs.) |
|--------------|--|---|-----------------------|-----------|--------------|
| 02.03.01     | <b>Description</b>   | 100% of unit rate of original pitting during raising year and 100% during maint. year. Planting, transportation and internal transportation same as adopted during raising year |                       |           |              |
| 02.01.06     | Digging of pits (b) (ii) 60 cm cube size in hard gravelly and moram Soil (Manual) - Rs.24.35 for 45 cm cube pit  | 10  | 57.72                 | Each      | 577          |
| 02.02.01     | Transportation of planting stock (including loading and unloading upto a distance of 5 Kms)  | 10  | 109.70                | 100 Nos., | 11           |
| 02.02.02     | <b>Transportation of Planting Stock</b> (including loading and unloading) more than 5 km distance and upto 25 km distance  | 10  | 77.00                 | 100 Nos., | 8            |
| 02.02.03     | Transportation of Planting Stock (including loading and unloading) more than 25 km distance and for every extra km (with prior written approval of Circle Head)  | 10  | 39.00                 | 100 Nos., | 4            |
| 02.02.04     | Internal transportation to planting points on head loads   | 10  | 87.45                 | 100 Nos., | 9            |
| 02.02.07     | (b) Planting in 60 cm <sup>3</sup> Pit   | 10  | 924.65                | 100 Nos., | 92           |
| 02.02.11     | Cost of DAP @ 25 gm / planting point   | 200   | 1.12                  | Each      | 224          |
| 02.04.01     | Weeding and saucer formation to a radius of 0.5 mts around the plant immediately after planting (i.e) during June.   | 200   | 119.05                | 100 Nos., | 238          |
| 02.04.02     | Circular weeding to a radius of 0.50 m around the plant (i.e. Aug - Sept)  | 200   | 119.05                | 100 Nos., | 238          |
| 02.04.03     | Deep soil working to a radius of 0.5 m and to a depth of 10 cm (to be done by pick-axe only) without damaging the plant (to be carried out during Nov - Dec)   |   |                       |           |              |
|              | (b) For hard gravelly soil   | 200   | 625.00                | 100 Nos., | 1250         |
| 02.04.04     | Cutting of coppice growth flush to the ground to reduce the competition over the entire area duly retaining useful species after planting and placing the cut material in between the planting rows (to be undertaken during July -August) |   |                       |           |              |
|              | (a) Low rainfall zone < 800 mm   | 1   | 929.00                | Ha.       | 929          |
| 02.03.06     | <b>Pruning of lower branch initials</b> of Timber and NTFP species by sciculture upto 1/3 rd height during October   | 200   | 118.35                | 100 Nos., | 237          |
| 03.05.01     | Maintenance of fire lines (5.00 mtr width) including cutting back of rank growth and burning - proportionate cost - 0.60 times   | 100   | 579.30                | 100 Rmt   | 579          |
| 02.02.20     | <b>Cost of Protection:</b> (a) For fenced area: One Casual labour is allowed for the plantation more than 10.00 ha but less than 30.00 ha. in extent and two Casual labourers are allowed for more than 30.00 ha. Rs.8757 x 12 *2/30       | 1   | 7006                  | Ha        | 7006         |
|              |  |   | <b>Total</b>          |           | <b>11402</b> |
|              |  |   | Unit Rate for 2019-20 |           | 11402        |

  
 District Forest Officer,  
 Surya pet



3rd year maintenance Plantatation under Labour Intensive Method with 5m x 5m espacement

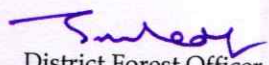
| FSR Item No. | Description  | Quantity | Rate (Rs.)            | Unit area 1.00 Ha, |              |
|--------------|--|----------|-----------------------|--------------------|--------------|
|              |  |          |                       | Per                | Amount (Rs.) |
| 02.04.01     | Weeding and saucer formation to a radius of 0.5 mts around the plant immediately after planting (i.e) during June.   | 200      | 119.05                | 100 Nos.,          | 238          |
| 02.04.03     | Deep soil working to a radius of 0.5 m and to a depth of 10 cm (to be done by pick-axe only) without damaging the plant (to be carried out during Nov - Dec)   |          |                       |                    |              |
|              | (b) For hard gravelly soil   |          |                       |                    |              |
| 02.03.06     | Pruning of lower branch initials of Timber and NTFP species by scicature upto 1/3 rd height during October   | 200      | 625.00                | 100 Nos.,          | 1250         |
|              |  | 200      | 118.35                | 100 Nos.,          | 237          |
| 03.05.01     | Maintenance of fire lines (5.00 mtr width) including cutting back of rank growth and burning - propotionate cost - 0.60 times  | 100      | 579.30                | 100 Rmt            | 579          |
| 02.04.06     | Cost of Protection: (a) For fenced area: One Casual labour is allowed for the plantation more than 10.00 ha but less than 30.00 ha. in extent and two Casual labourers are allowed for more than 30.00 ha. Rs.8757 x 6 *2/30 | 1        | 3503                  | Ha                 | 3503         |
|              |  |          | Total                 |                    | 5807         |
|              |  |          | Unit Rate for 2019-20 |                    | 5807         |

  
District Forest Officer,  
Surya pet

**4th year maintenance Plantatation under Labour Intensive Method with 5m x 5m espacement**

*Unit area 1.00 Ha,*


| FSR Item No. | Description  | Quantity | Rate (Rs.)            | Per       | Amount (Rs.) |
|--------------|--|----------|-----------------------|-----------|--------------|
| 02.04.01     | Weeding and saucer formation to a radius of 0.5 mts around the plant immediately after planting (i.e) during June.   | 200      | 119.05                | 100 Nos., | 238          |
| 02.04.03     | Deep soil working to a radius of 0.5 m and to a depth of 10 cm (to be done by pick-axe only) without damaging the plant (to be carried out during Nov - Dec)   |          |                       |           |              |
|              | (b) For hard gravelly soil   | 200      | 625.00                | 100 Nos., | 1250         |
| 02.03.06     | Pruning of lower branch initials of Timber and NTFP species by scicature upto 1/3 rd height during October   | 200      | 118.35                | 100 Nos., | 237          |
| 03.05.01     | Maintenance of fire lines (5.00 mtr width) including cutting back of rank growth and burning - propotionate cost - 0.60 times  | 100      | 579.30                | 100 Rmt   | 579          |
| 02.04.06     | Cost of Protection: (a) For fenced area: One Casual labour is allowed for the plantation more than 10.00 ha but less than 30.00 ha. in extent and two Casual labourers are allowed for more than 30.00 ha. Rs.8757 x 4 *2/30 | 1        | 2335                  | Ha        | 2335         |
|              |  |          | <b>Total</b>          |           | <b>4639</b>  |
|              |  |          | Unit Rate for 2019-20 |           | 4639         |

  
 District Forest Officer,  
 Surya pet




5th year maintenance Plantatation under Labour Intensive Method with 5m x 5m espacement

| FSR Item No. | Description  | Quantity | Rate (Rs.)            | Unit area 1.00 Ha. |              |
|--------------|--|----------|-----------------------|--------------------|--------------|
|              |  |          |                       | Per                | Amount (Rs.) |
| 02.03.06     | Pruning of lower branch initials of Timber and NTFP species by scicature upto 1/3 rd height during October   | 200      | 118.35                | 100 Nos.,          | 237          |
| 02.04.03     | Deep soil working to a radius of 0.5 m and to a depth of 10 cm (to be done by pick-axe only) without damaging the plant (to be carried out during Nov - Dec) |          |                       |                    |              |
|              | (b) For hard gravelly soil -1 time   | 200      | 625.00                | 100 Nos.,          | 1250         |
| 03.05.01     | Maintenance of fire lines (5.00 mtr width) including cutting back of rank growth and burning - propotionate cost - 0.60 times                                | 100      | 579.30                | 100 Rmt            | 579          |
|              |  |          | Total                 |                    | 2066         |
|              |  |          | Unit Rate for 2019-20 |                    | 2066         |

  
District Forest Officer,  
Surya pet

6th year maintenance Plantatation under Labour Intensive Method with 5m x 5m espacement

| FSR Item No. | Description   | Quantity | Rate (Rs.)            | Unit area 1.00 Ha, |              |
|--------------|---|----------|-----------------------|--------------------|--------------|
|              |   |          |                       | Per                | Amount (Rs.) |
| 02.03.06     | Pruning of lower branch initials of Timber and NTFP species by scicature upto 1/3 rd height during October                    | 200      | 118.35                | 100 Nos.,          | 237          |
| 03.05.01     | Maintenance of fire lines (5.00 mtr width) including cutting back of rank growth and burning - propotionate cost - 0.60 times | 100      | 579.30                | 100 Rmt            | 579          |
|              |   |          | Total                 |                    | 816          |
|              |   |          | Unit Rate for 2019-20 |                    | 816          |


  
District Forest Officer,  
Surya pet



7th year maintenance Plantatation under Labour Intensive Method with 5m x 5m espacement

Unit area 1.00 Ha,

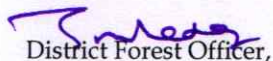
| FSR Item No. | Description  | Quantity              | Rate (Rs.)   | Per       | Amount (Rs.) |
|--------------|--|-----------------------|--------------|-----------|--------------|
| 02.04.03     | Deep soil working to a radius of 0.5 m and to a depth of 10 cm (to be done by pick-axe only) without damaging the plant (to be carried out during Nov - Dec) |                       |              |           |              |
|              | (b) For hard gravelly soil -1 time   | 200                   | 625.00       | 100 Nos., | 1250         |
| 03.05.01     | Maintenance of fire lines (5.00 mtr width) including cutting back of rank growth and burning - propotionate cost - 0.60 times                                | 100                   | 579.30       | 100 Rmt   | 579          |
|              |  |                       | <b>Total</b> |           | <b>1829</b>  |
|              |  | Unit Rate for 2019-20 |              |           | <b>1829</b>  |

  
District Forest Officer,  
Surya pet

8th year maintenance Plantatation under Labour Intensive Method with 5m x 5m espacement

Unit area 1.00 Ha,

| FSR Item No. | Description   | Quantity              | Rate (Rs.)   | Per       | Amount (Rs.) |
|--------------|---|-----------------------|--------------|-----------|--------------|
| 02.03.06     | Pruning of lower branch initials of Timber and NTFP species by scicature upto 1/3 rd height during October                    | 200                   | 118.35       | 100 Nos., | 237          |
| 03.05.01     | Maintenance of fire lines (5.00 mtr width) including cutting back of rank growth and burning - propotionate cost - 0.60 times | 100                   | 579.30       | 100 Rmt   | 579          |
|              |   |                       | <b>Total</b> |           | <b>816</b>   |
|              |   | Unit Rate for 2019-20 |              |           | <b>816</b>   |


  
District Forest Officer,  
Surya pet



9th year maintenance Plantatation under Labour Intensive Method with 5m x 5m espacement

Unit area 1.00 Ha,

| FSR Item No. | Description  | Quantity              | Rate (Rs.)   | Per       | Amount (Rs.) |
|--------------|--|-----------------------|--------------|-----------|--------------|
| 02.04.03     | Deep soil working to a radius of 0.5 m and to a depth of 10 cm (to be done by pick-axe only) without damaging the plant (to be carried out during Nov - Dec) |                       |              |           |              |
|              | (b) For hard gravelly soil -1 time   | 200                   | 625.00       | 100 Nos., | 1250         |
| 03.05.01     | Maintenance of fire lines (5.00 mtr width) including cutting back of rank growth and burning - propotionate cost - 0.60 times                                | 100                   | 579.30       | 100 Rmt   | 579          |
|              |  |                       | <b>Total</b> |           | <b>1829</b>  |
|              |  | Unit Rate for 2019-20 |              |           | <b>1829</b>  |

  
District Forest Officer,  
Surya pet

10th year maintenance Plantatation under Labour Intensive Method with 5m x 5m espacement

Unit area 1.00 Ha,

| FSR Item No. | Description   | Quantity | Rate (Rs.)            | Per       | Amount (Rs.) |
|--------------|---|----------|-----------------------|-----------|--------------|
| 02.03.06     | Pruning of lower branch initials of Timber and NTFP species by scicature upto 1/3 rd height during October                    | 200      | 118.35                | 100 Nos., | 237          |
| 03.05.01     | Maintenance of fire lines (5.00 mtr width) including cutting back of rank growth and burning - propotionate cost - 0.60 times | 100      | 579.30                | 100 Rmt   | 579          |
|              |   |          | Total                 |           | 816          |
|              |   |          | Unit Rate for 2019-20 |           | 816          |


*Sunder*  
District Forest Officer,  
*Suryapet*



**Advance Operations under Labour Intensive Method with 5m x 5m espacement**

Unit area 1.00 Ha,

| FSR Item No. | Description   | Quantity | Rate (Rs.)            | Per        | Amount (Rs.)  |
|--------------|---|----------|-----------------------|------------|---------------|
| 02.01.00     | <b>ADVANCE OPERATION (PRE-PLANTING OPERATION)</b> - All advance-operation works of plantations to be raised shall be completed before March. Perambulation of site, preparing site inspection report including type of vegetation and density, approval of site suitability and the category of jungle growth clearance, taking the images of the existing vegetation, preparation of treatment plan shall be prepared and approved in writing by DFO before taking up advance operation. |          |                       |            |               |
| 02.01.01     | 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 latest by December end.   | 1        | 356.65                | Plantation | 357           |
| 02.01.02     | 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. All the above operations should be completed before December.    |          |                       |            |               |
|              | (a) Sparse Jungle growth (<10% ground area covered with Jungle growth)  | 0.40     | 1982.25               | Ha         | 793           |
|              | (b) Very light jungle growth (>10% and upto 20% covered with Jungle growth)   | 0.40     | 2979.55               | Ha         | 1192          |
|              | (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.   | 0.20     | 7000                  | Ha         | 1400          |
| 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.   | 100      | 5.85                  | Rmt        | 585           |
| 02.01.05     | Alignment and stacking including demarcation of baseline  |          |                       |            |               |
|              | (a) 5x5 m espacement  | 1666     | 85.1                  | 100 No's   | 1418          |
| 02.01.04     | Cost of preparation of stakes (0.45 m length) and transportation to site  | 1666     | 54.25                 | 100 No's   | 904           |
| 02.01.06     | Digging of pits during January to March   |          |                       |            |               |
|              | (b) (ii) 60 cm cube size in hard gravelly and moram Soil (Manual) - Rs.24.35 for 45 cm cube pit   | 1666     | 57.72                 | Each       | 96159         |
| SSR          | Cost and transportation of soil mixture for filling half of the pit and spreading around the pit - 0.6 cm x 0.6 cm x 0.6 cm = 0.216 cum   | 359.856  | 169.00                | cum        | 60816         |
|              |   |          | <b>Total</b>          |            | <b>163624</b> |
|              |   |          | Unit Rate for 2019-20 |            | <b>163624</b> |

  
District Forest Officer,  
Suryapet




**Raising of Plantation under Labour Intensive Method with 5m x 5m espacement**

*Unit area 1.00 Ha,*

| FSR Item No. | Description  | Quantity   | Rate (Rs.)  | Per       | Amount (Rs.) |
|--------------|--|--|-------------|-----------|--------------|
| 02.02.00     | <b>Planting Operations during raising year</b>   |  |             |           |              |
| 02.02.01     | Transportation of planting stock (including loading and unloading upto a distance of 5 Kms)  |  |             |           |              |
|              | (b) 15 X 30 cm (6"X12") bag plants   | 1666   | 109.7       | 100 Nos., | 1828.00      |
| 02.02.02     | Transportation of Planting Stock (including loading and unloading) more than 5 km distance and upto 25 km distance   |  |             |           |              |
|              | (b) 15 X 30 cm (6"X12") bag plants   | 1666   | 77.00       | 100 Nos., | 1283.00      |
| 02.02.03     | Transportation of Planting Stock (including loading and unloading) more than 25 km distance and for every extra km (with prior written approval of Circle Head)  |  |             |           |              |
|              | (b) 15 X 30 cm (6"X12") bag plants   | 1666   | 39.00       | 100 Nos., | 650.00       |
| 02.02.04     | Internal transportation to planting points on head loads   |  |             |           |              |
|              | (b) 15 X 30 cm (6"X12") bag plants   | 1666   | 87.45       | 100 Nos., | 1457         |
|              | PLANTING: Seedlings of local species of secondary hardwood along with their associates and NTFP species will have to be chosen for planting. The minimum height of the planting stock to be planted is 0.75 m - 1m height (excluding the height of the bag)  |  |             |           |              |
| 02.02.05     | Application of 50 gm of SSP per pit (1 day before planting) for root growth and early establishment of plant after planting. Similarly, the bag plants to be planted are to be dipped inside Chloropyriphos solution (5 ml of Chloropyriphos in 1 lit water) either at nursery site before transport or at plantation site before planting | 1666   | 37.40       | 100 Nos., | 623          |
| 02.02.06     | Cost of SSP, Chloridine dust (50 gm) or Chloropyriphos (Rs. 2/- per plant)   | As per actual  | 800         | Ha.       | 2222         |
| 02.02.07     | Planting in 60 cm <sup>3</sup> Pit   | 1666   | 924.65      | 100 Nos., | 15405        |
| 02.01.04     | ii) Cost of preparation of stakes (2.0 m length) and transportation to site (subject to condition that the seedling height is 1.5m to 2.0m height)   | 1666   | 860.00      | 100.00    | 14328        |
| 02.02.09     | Watering (one time) immediately after planting if the planting takes place on a non-rainy days and during dry spell - 4 waterings  | 1666   | 1009.00     | 100 Nos., | 16810        |
| 02.02.10     | Replacement of Casualties: 20% during Raising Year & 25% in 1 <sup>st</sup> year The casualty replacement should be done in 3 stages at an interval of 15 days immediately after planting during raising year.   | 50% of unit rate of original pitting during raising year and 100% during maint. year. Planting, transportation and internal transportation same as adopted during raising year |             |           |              |
| 02.01.06     | Digging of pits (b) (ii) 60 cm cube size in hard gravelly and moram Soil (Manual) - Rs.24.35 for 45 cm cube pit  | 333  | 28.85925926 | Each      | 9610         |
| 02.02.01     | Transportation of planting stock (including loading and unloading upto a distance of 5 Kms)  | 333  | 109.7       | 100 Nos., | 365          |
| 02.02.02     | Transportation of Planting Stock (including loading and unloading) more than 5 km distance and upto 25 km distance   | 333  | 77.00       | 100 Nos., | 256          |




| FSR Item No. | Description  | Quantity              | Rate (Rs.)   | Per       | Amount (Rs.) |
|--------------|--|-----------------------|--------------|-----------|--------------|
| 02.02.03     | Transportation of Planting Stock (including loading and unloading) more than 25 km distance and for every extra km (with prior written approval of Circle Head)  | 333                   | 39.00        | 100 Nos., | 130          |
| 02.02.04     | Internal transportation to planting points on head loads   | 333                   | 87.45        | 100 Nos., | 291          |
| 02.02.07     | (b) Planting in 60 cm <sup>3</sup> Pit   | 333                   | 924.65       | 100 Nos., | 3079         |
| 02.02.11     | Cost of DAP @ 25 gm / planting point   | 1666                  | 1.20         | Each      | 1999         |
| 02.02.12     | 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. | 1666                  | 37.40        | 100 Nos., | 623          |
| 02.02.13     | Weeding and saucer formation to a radius of 0.5 mts around the plant immediately after planting (i.e) during June.   | 1666                  | 119.05       | 100 Nos., | 1983         |
| 02.02.14     | Circular weeding to a radius of 0.50 m around the plant (i.e., Aug - Sept)   | 1666                  | 119.05       | 100 Nos., | 1983         |
| 02.02.15     | Deep soil working to a radius of 0.5 m and to a depth of 10 cm (to be done by pick-axe only) without damaging the plant (to be carried out during Nov - Dec)   |                       |              |           |              |
|              | (b) For hard gravelly soil   | 1666                  | 625.00       | 100 Nos., | 10413        |
| 02.02.16     | Cutting of coppice growth flush to the ground to reduce the competition over the entire area duly retaining useful species after planting and placing the cut material in between the planting rows (to be undertaken during July - August)                      |                       |              |           |              |
|              | (a) Low rainfall zone < 800 m  | 1                     | 929.00       | Ha.       | 929          |
| 02.09.25     | Cost of Protection: (a) For fenced area: One Casual labour is allowed for the plantation more than 10.00 ha but less than 30.00 ha. in extent and two Casual labourers are allowed for more than 30.00 ha. Rs.8757 x 12 *2/30                                    | 1                     | 7006         | Ha        | 7006         |
|              |  |                       | <b>Total</b> |           | <b>93272</b> |
|              |  | Unit Rate for 2019-20 |              |           | 93272        |

  
 District Forest Officer,  
 Suryapet

**1st year maintenance of Plantation under Labour Intensive Method with 5m x 5m espacement**

Unit area 1.00 Ha.

| FSR Item No. | Description  | Quantity   | Rate (Rs.) | Per       | Amount (Rs.) |
|--------------|--|--|------------|-----------|--------------|
| 01.03.05     | Cost of transportation of soil mixture for filling the pit and spreading around the pit - 25 % of pit - 0.25 x 0.6 cm x 0.6 cm x 0.6 cm  | 21.6   | 352.23     | cum       | 7608         |
| 02.03.01     | <b>Replacement of Casualties:</b> 25% in 1st year (In case of Eucalyptus: no casualty replacement). The list of all casualty points shall be prepared by concerned FRO by and made a report to DFO latest by end of May. The pitting of all such casualty points shall be over by end of June. The casualty replacement shall be completed by end of July. | Pitting, planting, transportation and internal transportation same as prescribed in fresh planting |            |           |              |
| 02.01.06     | Digging of pits (b) (ii) 60 cm cube size in hard gravelly and moram Soil (Manual) - Rs.24.35 for 45 cm cube pit  | 417  | 57.72      | Each      | 24069        |
| 02.02.01     | Transportation of planting stock (including loading and unloading upto a distance of 5 Kms)  | 417  | 109.7      | 100 Nos., | 457          |
| 02.02.02     | <b>Transportation of Planting Stock</b> (including loading and unloading) more than 5 km distance and upto 25 km distance  | 417  | 77         | 100 Nos., | 321          |
| 02.02.03     | Transportation of Planting Stock (including loading and unloading) more than 25 km distance and for every extra km (with prior written approval of Circle Head)  | 417  | 39         | 100 Nos., | 163          |
| 02.02.04     | Internal transportation to planting points on head loads   | 417  | 87.45      | 100 Nos., | 365          |
| 02.02.07     | (b) Planting in 60 cm <sup>3</sup> Pit   | 417  | 924.65     | 100 Nos., | 3856         |
| 02.02.11     | Cost of DAP @ 25 gm / planting point   | 1666   | 1.12       | Each      | 1866         |
| 02.02.09     | Watering (one time) immediately after planting if the planting takes place on a non-rainy days and during dry spell - 4 waterings  | 1666   | 1009.00    | 100 Nos., | 16810        |
| 02.03.02     | Weeding and saucer formation to a radius of 0.5 mts around the plant immediately after planting (i.e) during June.   | 1666   | 119.05     | 100 Nos., | 1983         |
| 02.03.03     | Circular weeding to a radius of 0.50 m around the plant (i.e. Aug - Sept)  | 1666   | 119.05     | 100 Nos., | 1983         |
| 02.03.04     | Deep soil working to a radius of 0.5 m and to a depth of 10 cm (to be done by pick-axe only) without damaging the plant (to be carried out during Nov - Dec)   |  |            |           |              |
|              | (b) For hard gravelly soil   | 1666   | 625.00     | 100 Nos., | 10413        |
| 02.03.05     | Cutting of coppice growth flush to the ground to reduce the competition over the entire area duly retaining useful species after planting and placing the cut material in between the planting rows (to be undertaken during July - August)  |  |            |           |              |
|              | (a) Low rainfall zone < 800 mm   | 1  | 929.00     | Ha.       | 929          |
| 02.03.06     | <b>Pruning of lower branch initials</b> of Timber and NTFP species by scicature upto 1/3 rd height during October  | 1666   | 118.35     | 100 Nos., | 1972         |
| 03.05.01     | Maintenance of fire lines (5.00 mtr width) including cutting back of rank growth and burning - proportionate cost - 0.60 times   | 100  | 579.30     | 100 Rmt   | 579          |
| 02.10.09     | <b>Cost of Protection:</b> (a) For fenced area: One Casual labour is allowed for the plantation more than 10.00 ha but less than 30.00 ha. in extent and two Casual labourers are allowed for more than 30.00 ha. Rs.8757 x 12 *2/30   | 1  | 7006       | Ha        | 7006         |
|              | <b>Total</b>   |  |            |           | 80380        |
|              | <b>Unit Rate for 2019-20</b>   |  |            |           | 80380        |

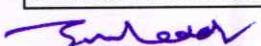
  
District Forest Officer,  
Suryapet



**2nd year maintenance Plantation under Labour Intensive Method with 5m x 5m espacement**

*Unit area 1.00 Ha,*


| FSR Item No. | Description  | Quantity  | Rate (Rs.)            | Per       | Amount (Rs.) |
|--------------|--|---|-----------------------|-----------|--------------|
| 02.03.01     | <b>Replacement of Casualties:</b> 20% during Raising Year & 25% in 1 <sup>st</sup> year The casualty replacement should be done in 3 stages at an interval of 15 days immediately after planting during raising year. - 5% proposed        | 100% of unit rate of original pitting during raising year and 100% during maint. year. Planting, transportation and internal transportation same as adopted during raising year |                       |           |              |
| 02.01.06     | Digging of pits (b) (ii) 60 cm cube size in hard gravelly and moram Soil (Manual) - Rs.24.35 for 45 cm cube pit  | 83  | 57.72                 | Each      | 4791         |
| 02.02.01     | Transportation of planting stock (including loading and unloading upto a distance of 5 Kms)  | 83  | 109.70                | 100 Nos., | 91           |
| 02.02.02     | Transportation of Planting Stock (including loading and unloading) more than 5 km distance and upto 25 km distance   | 83  | 77.00                 | 100 Nos., | 64           |
| 02.02.03     | Transportation of Planting Stock (including loading and unloading) more than 25 km distance and for every extra km (with prior written approval of Circle Head)  | 83  | 39.00                 | 100 Nos., | 32           |
| 02.02.04     | Internal transportation to planting points on head loads   | 83  | 87.45                 | 100 Nos., | 73           |
| 02.02.07     | (b) Planting in 60 cm <sup>3</sup> Pit   | 83  | 924.65                | 100 Nos., | 767          |
| 02.02.11     | Cost of DAP @ 25 gm / planting point   | 1666  | 1.12                  | Each      | 1866         |
| 02.04.01     | Weeding and saucer formation to a radius of 0.5 mts around the plant immediately after planting (i.e) during June.   | 1666  | 119.05                | 100 Nos., | 1983         |
| 02.04.02     | Circular weeding to a radius of 0.50 m around the plant (i.e. Aug - Sept)  | 1666  | 119.05                | 100 Nos., | 1983         |
| 02.04.03     | Deep soil working to a radius of 0.5 m and to a depth of 10 cm (to be done by pick-axe only) without damaging the plant (to be carried out during Nov - Dec)   |   |                       |           |              |
|              | (b) For hard gravelly soil   | 1666  | 625.00                | 100 Nos., | 10413        |
| 02.04.04     | Cutting of coppice growth flush to the ground to reduce the competition over the entire area duly retaining useful species after planting and placing the cut material in between the planting rows (to be undertaken during July -August) |   |                       |           |              |
|              | (a) Low rainfall zone < 800 mm   | 1   | 929.00                | Ha.       | 929          |
| 02.03.06     | Pruning of lower branch initials of Timber and NTFP species by scicature upto 1/3 rd height during October   | 1666  | 118.35                | 100 Nos., | 1972         |
| 03.05.01     | Maintenance of fire lines (5.00 mtr width) including cutting back of rank growth and burning - propotionate cost - 0.60 times  | 100   | 579.30                | 100 Rmt   | 579          |
| 02.02.20     | Cost of Protection: (a) For fenced area: One Casual labour is allowed for the plantation more than 10.00 ha but less than 30.00 ha. in extent and two Casual labourers are allowed for more than 30.00 ha. Rs.8757 x 12 *2/30              | 1   | 7006                  | Ha        | 7006         |
|              |  |   | <b>Total</b>          |           | <b>32549</b> |
|              |  |   | Unit Rate for 2019-20 |           | 32549        |

  
District Forest Officer,  
Suryapet

3rd year maintenance Plantatation under Labour Intensive Method with 5m x 5m espacement

Unit area 1.00 Ha,

| FSR Item No. | Description  | Quantity | Rate (Rs.)            | Per       | Amount (Rs.) |
|--------------|--|----------|-----------------------|-----------|--------------|
| 02.04.01     | Weeding and saucer formation to a radius of 0.5 mts around the plant immediately after planting (i.e) during June.   | 1666     | 119.05                | 100 Nos., | 1983         |
| 02.04.03     | Deep soil working to a radius of 0.5 m and to a depth of 10 cm (to be done by pick-axe only) without damaging the plant (to be carried out during Nov - Dec)   |          |                       |           |              |
|              | (b) For hard gravelly soil   | 1666     | 625.00                | 100 Nos., | 10413        |
| 02.03.06     | Pruning of lower branch initials of Timber and NTFP species by scicature upto 1/3 rd height during October   | 1666     | 118.35                | 100 Nos., | 1972         |
| 03.05.01     | Maintenance of fire lines (5.00 mtr width) including cutting back of rank growth and burning - propotionate cost - 0.60 times  | 100      | 579.30                | 100 Rmt   | 579          |
| 02.04.06     | Cost of Protection: (a) For fenced area: One Casual labour is allowed for the plantation more than 10.00 ha but less than 30.00 ha. in extent and two Casual labourers are allowed for more than 30.00 ha. Rs.8757 x 6 *2/30 | 1        | 3503                  | Ha        | 3503         |
|              |  |          | <b>Total</b>          |           | <b>18450</b> |
|              |  |          | Unit Rate for 2019-20 |           | 18450        |


  
District Forest Officer,  
Suryapet



**4th year maintenance Plantatation under Labour Intensive Method with 5m x 5m espacement**

Unit area 1.00 Ha,


| FSR Item No. | Description  | Quantity | Rate (Rs.)            | Per       | Amount (Rs.) |
|--------------|--|----------|-----------------------|-----------|--------------|
| 02.04.01     | Weeding and saucer formation to a radius of 0.5 mts around the plant immediately after planting (i.e) during June.   | 1666     | 119.05                | 100 Nos., | 1983         |
| 02.04.03     | Deep soil working to a radius of 0.5 m and to a depth of 10 cm (to be done by pick-axe only) without damaging the plant (to be carried out during Nov - Dec)   |          |                       |           |              |
|              | (b) For hard gravelly soil   | 1666     | 625.00                | 100 Nos., | 10413        |
| 02.03.06     | Pruning of lower branch initials of Timber and NTFP species by sciculture upto 1/3 rd height during October  | 1666     | 118.35                | 100 Nos., | 1972         |
| 03.05.01     | Maintenance of fire lines (5.00 mtr width) including cutting back of rank growth and burning - propotionate cost - 0.60 times  | 100      | 579.30                | 100 Rmt   | 579          |
| 02.04.06     | Cost of Protection: (a) For fenced area: One Casual labour is allowed for the plantation more than 10.00 ha but less than 30.00 ha. in extent and two Casual labourers are allowed for more than 30.00 ha. Rs.8757 x 4 *2/30 | 1        | 2335                  | Ha        | 2335         |
|              |  |          | <b>Total</b>          |           | <b>17282</b> |
|              |  |          | Unit Rate for 2019-20 |           | 17282        |

  
 District Forest Officer,  
 Suryapet

5th year maintenance Plantatation under Labour Intensive Method with 5m x 5m espacement

Unit area 1.00 Ha,

| FSR Item No. | Description  | Quantity | Rate (Rs.)            | Per       | Amount (Rs.) |
|--------------|--|----------|-----------------------|-----------|--------------|
| 02.03.06     | Pruning of lower branch initials of Timber and NTFP species by scicature upto 1/3 rd height during October   | 1666     | 118.35                | 100 Nos., | 1972         |
| 02.04.03     | Deep soil working to a radius of 0.5 m and to a depth of 10 cm (to be done by pick-axe only) without damaging the plant (to be carried out during Nov - Dec) |          |                       |           |              |
|              | (b) For hard gravelly soil -1 time   | 1666     | 625.00                | 100 Nos., | 10413        |
| 03.05.01     | Maintenance of fire lines (5.00 mtr width) including cutting back of rank growth and burning - propotionate cost - 0.60 times                                | 100      | 579.30                | 100 Rmt   | 579          |
|              |  |          | Total                 |           | 12964        |
|              |  |          | Unit Rate for 2019-20 |           | 12964        |

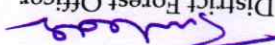
  
District Forest Officer,  
Suryapet



6th year maintenance Plantation under Labour Intensive Method with 5m x 5m espacement

Unit area 1.00 Ha,


| FSR Item No. | Description  | Quantity | Rate (Rs.)            | Per       | Amount (Rs.) |
|--------------|--|----------|-----------------------|-----------|--------------|
| 02.03.06     | Pruning of lower branch initials of Timber and NTFP species by scicature upto 1/3 rd height during October                     | 1666     | 118.35                | 100 Nos., | 1972         |
| 03.05.01     | Maintenance of fire lines (5.00 mtr width) including cutting back of rank growth and burning - proportionate cost - 0.60 times | 100      | 579.30                | 100 Rmt   | 579          |
|              |  |          | Total                 |           | 2551         |
|              |  |          | Unit Rate for 2019-20 |           | 2551         |

  
District Forest Officer,  
Suryapet

**7th year maintenance Plantatation under Labour Intensive Method with 5m x 5m espacement**

Unit area 1.00 Ha.

| FSR Item No. | Description  | Quantity | Rate (Rs.) | Per       | Amount (Rs.) |
|--------------|--|----------|------------|-----------|--------------|
| 02.04.03     | Deep soil working to a radius of 0.5 m and to a depth of 10 cm (to be done by pick-axe only) without damaging the plant (to be carried out during Nov - Dec) |          |            |           |              |
|              | (b) For hard gravelly soil - 1 time  | 1666     | 625.00     | 100 Nos., | 10413        |
| 03.05.01     | Maintenance of fire lines (5.00 mtr width) including cutting back of rank growth and burning - proportionate cost - 0.60 times                               | 100      | 579.30     | 100 Rmt   | 579          |
|              | <b>Total</b>   |          |            |           | <b>10992</b> |
|              | Unit Rate for 2019-20  |          |            |           | 10992        |

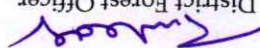
  
District Forest Officer,  
Suryapet



8th year maintenance Plantation under Labour Intensive Method with 5m x 5m espacement

Unit area 1.00 Ha,

| FSR Item No. | Description  | Quantity | Rate (Rs.) | Per       | Amount (Rs.) |
|--------------|--|----------|------------|-----------|--------------|
| 02.03.06     | Pruning of lower branch initials of Timber and NTFP species by scicature upto 1/3 rd height during October                     | 1666     | 118.35     | 100 Nos., | 1972         |
| 03.05.01     | Maintenance of fire lines (5.00 mtr width) including cutting back of rank growth and burning - proportionate cost - 0.60 times | 100      | 579.30     | 100 Rmt   | 579          |
|              | Total  |          |            |           | 2551         |
|              | Unit Rate for 2019-20  |          |            |           | 2551         |

  
District Forest Officer,  
Suryapet

9th year maintenance Plantation under Labour Intensive Method with 5m x 5m espacement

| FSR Item No. | Description  | Quantity | Rate (Rs.) | Per       | Amount (Rs.) |
|--------------|--|----------|------------|-----------|--------------|
| 02.04.03     | Deep soil working to a radius of 0.5 m and to a depth of 10 cm (to be done by pick-axe only) without damaging the plant (to be carried out during Nov - Dec) |          |            |           |              |
|              | (b) For hard gravelly soil - 1 time  | 1666     | 625.00     | 100 Nos., | 10413        |
| 03.05.01     | Maintenance of fire lines (5.00 mtr width) including cutting back of rank growth and burning - proportionate cost - 0.60 times                               | 100      | 579.30     | 100 Rmt   | 579          |
|              | Total  |          |            |           | 10992        |
|              | Unit Rate for 2019-20  |          |            |           | 10992        |

Unit area 1.00 Ha.

*Singh*  
District Forest Officer,



10th year maintenance Plantatation under Labour Intensive Method with 5m x 5m espacement

Unit area 1.00 Ha,

| FSR Item No. | Description   | Quantity | Rate (Rs.)            | Per       | Amount (Rs.) |
|--------------|---|----------|-----------------------|-----------|--------------|
| 02.03.06     | Pruning of lower branch initials of Timber and NTFP species by sciature upto 1/3 rd height during October                     | 1666     | 118.35                | 100 Nos., | 1972         |
| 03.05.01     | Maintenance of fire lines (5.00 mtr width) including cutting back of rank growth and burning - propotionate cost - 0.60 times | 100      | 579.30                | 100 Rmt   | 579          |
|              |   |          | Total                 |           | 2551         |
|              |   |          | Unit Rate for 2019-20 |           | 2551         |

*[Signature]*  
District Forest Officer,