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UNIT COST FOR RAISING OF PRIMARY BEDS

Sl. No.	FR-2020-21 Code	Item of work	Unit	Rate (Rs.)	Amount (Rs.)
1	2	3	4	5	7
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	5.20	5.20
3	01.01.03	Digging soil of the demarcated beds of 1x1x0.30 m size	Bed	40.06	40.06
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	30.29	30.29
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	26.04	26.04
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 lavelling.	Bed	11.39	11.39
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	13.02	13.02
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	12.97	12.97
12	01.01.13	Watering the primary nursery beds with rose water cans twice daily for a maximum period of 2 months.	45 Days	14.60	14.60
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	42.00	42.00
14	01.01.15	Cost of chemicals, fungicide and insecticide	Bed	39.00	39.00
16		Electrical Charges		32.00	32.00
		Total			617.72
		Rasing of seedlings 110% for abtaining 100%		10%	61.77
		Total			679.49
		cost of each plant (2000 plants per bed)			0.34

Forest Divisional Officer

Adilabad

5/5/2021

**UNIT COST FOR BAG PLANT NURSERY**

Sl. No.	FSR-2020-21 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	<b>01.03.01</b>	Site preparation for New Sites - Clearing of growth, uprootal of stumps and removal of surface stones, rubbish of all sorts etc.	Bed	1	52.08	1	52.08
		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	<b>01.03.03</b>	10 cm x 17.5 cm (4" x 7") size bags of 200 g: 589 bags / kg	Kg	5.08	161.00	1	817.24
	<b>01.03.04</b>	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.					
	<b>01.03.05</b>	<b>Distance upto 5 km</b>					
3	a	10 cm x 17.5 cm (4" x 7") size bags: 2600 bags / bed	No's	2600	207.06	1000	538.36
	<b>01.03.06</b>	<b>For every extra km beyond 5 km upto 25 km</b>					
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
	<b>01.03.08</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 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	613.10	1000	1594.06
6	<b>01.03.09</b>	Alignment of beds including alignment of inspection paths etc	Bed	1	7.98	1	7.98
7	<b>01.03.10</b>	Pricking out seedlings from primary beds and transplanting into polybags	No's	2600	147.74	1000	384.12
8	<b>01.03.11</b>	Sowing / dibbling of pretreated seeds (e.g. Yegisa, Nalamadi, Yerumaddi etc.) directly into bags including cost of treatment	No's	2600	87.89	1000	228.51
9	<b>01.03.12</b>	<b>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</b>	Bed	4	286.76	1	1147.04
10	<b>01.03.13</b>	Weeding to be done for every 2 months from the date of transplantation up to March	Bed	4	52.66	1	210.64
11	<b>01.03.14</b>	1st shifting and grading after three months and consecutive shifting and grading after every two months till the nursery stock is lifted	Bed	1	245.96	1	245.96

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	69.83	1	69.
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.
14	01.03.18	Weeding in the space between the beds, inspection path and surroundings of Nursery	Bed	2	35.91	1	71.
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	9194.85	100	367.7
16		Electricity charges					300.00
17		Add casualty 10%					6082.8
							751.0
							6833.9
		cost of each plant (2600 plants per bed)					4.019

10% escalation every year

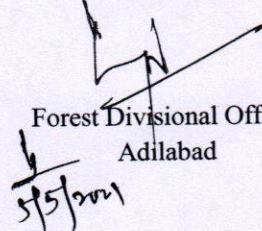
Forest Divisional Officer  
Adilabad

5/5/2021

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

Sl. No.	FSR-2020-21 Code	Item of work	Unit	Quantity	As per FSR		Amount (Rs.)
					Rate (Rs)	Per	
		Maintenance of 4"x7" or 5"x9" bag-plants from April – August - Watering the plants twice a day from April – August					
1	01.04.01	(a) Manually with rose cans or finely perforated nozzle attached to a hose pipe	Bed	5	286.76	1	1433.80
2	01.04.02	Weeding the beds during May & July	Bed	2	52.66	1	105.32
3	01.04.03	Shifting, grading and rearrangement in beds	Bed	1	245.96	1	245.96
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	9194.85	100	367.79
		<b>2020-21 Total</b>					<b>2452.87</b>
		<b>cost of each plant (2600 plants per bed)</b>					<b>0.9434</b>

10% escalation every year

  
 Forest Divisional Officer  
 Adilabad  
 5/5/2021

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

Sl. No.	FSR-2020-21 Code	Item of work	Unit	Quantity	As per FSR		Amount (Rs.)
					Rate (Rs)	Per	
		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.					
	01.03.21	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	588.00	1000	646.80
	01.03.22	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	16.06
	01.03.24	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	1048.37	1000	1153.21
	01.03.30	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	52.66	1	105.3
5	01.03.31	Shifting, Grading and rearranging in secondary beds - One Grading in February	Bed	2	245.96	1	491.9
	01.03.32	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	286.81	1	1434.05
	01.03.34	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	9194.85	100	367.00
8		Cost of the polythene bags (6" x 12" )					2340.00
9	01.03.39	Electricity charges					500.00
							7085.00
10	01.03.38	Contingencies @ 5%					354.20
							7439.20
							6.76
		cost of each plant					

10% escalation every year

Forest Divisional Officer  
Adilabad  
5/5/2021

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

Sl. No.	FSR-2020-21 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	286.76	1	1147.04
2	<b>01.04.02</b>	Weeding once during maintenance year	Bed/weeding	1	52.66	1	52.66
3	<b>01.04.03</b>	Shifting, grading and rearrangement in beds	Bed/shifting	2	245.96	1	491.92
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 sorroundings of Nursery	Bed	1	28.98	1	28.98
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	9194.85	100	367.79
8	<b>01.04.09</b>	Electricity charges			500.00		500.00
		<b>Total</b>					<b>2633.39</b>
9	<b>01.04.08</b>	Contingencies @ 5%					<b>131.67</b>
		<b>2020-21 Total</b>					<b>2765.06</b>
		<b>cost of each plant (1100 Plants per bed)</b>					<b>2.5137</b>

10% escalation every year

Forest Divisional Officer  
Adilabad

5/5/2021

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

Sl. No.	FSR-2020-21 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	177.14	1	708.56
2	01.05.02	Shifting, grading and rearrangement in beds	Bed/weeding	1	245.96	1	245.96
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 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 bedors 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	9194.85	100	459.74
		<b>Total</b>					<b>1414.26</b>
		<b>cost of each plant (1100 Plants per bed)</b>					1.2857

10% escalation every year

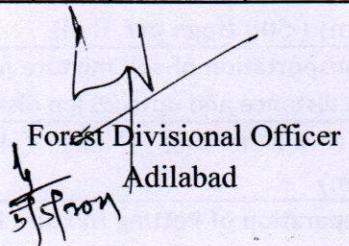
Forest Divisional Officer  
Adilabad

STP 2011

*~335~*  
UNIT COST FOR CONVERSION FROM 6"x8" to 9"x11"

Sl. No.	FSR-2020-21 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</b> - 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>Cost and Transport of ingredients for Potting Mixture:</b> 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.					
	<b>01.03.21</b>	<b>Transportation of soil mixture ingredients</b>					
		<b>Distance up to 5 km</b>					
1	<b>h</b>	(h) 6" x 8" to 9" x 11" bags ( 4.717 - 1.433 = 3.284 cum) ( <b>500 Bags per Bed</b> )	No	500	1250.29	1000	625.15
	<b>01.03.22</b>	<b>Transportation of soil mixture ingredients more than 5 km distance and upto 25 km distance</b>					
2	<b>j</b>	(j) 6" x 8" to 9" x 11" bags ( 4.717 - 1.433 = 3.284 cum)	No	500	30.16	1000	15.08
	<b>01.03.24</b>	<b>Preparation of Potting Mixture</b> 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	<b>h</b>	(h) 6" x 8" to 9" x 11" bags ( 4.717 - 1.433 = 3.284 cum)	No	500	2165.28	1000	1082.64
	<b>01.03.30</b>	<b>Weeding the plants</b> (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		<b>Weeding the plants (2 weedings)</b>	Bed	2	52.66	1	105.32
5	<b>01.03.31</b>	<b>Shifting, Grading and rearranging in secondary beds</b> - One Grading in February	Bed	2	245.96	1	491.92
	<b>01.03.32</b>	<b>Watering the plants manually twice a day</b> (from Novemebr - March) with rose spray or finely perforated nozzle attached to a hose pipe.					
6	<b>a</b>	Manually with rose spray or finely perforated nozzle attached to a hose pipe	Bed	5	286.81	1	1434.05
	<b>01.03.37</b>	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	<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	9194.85	100	367.79
8		<b>Cost of the ploythene bags</b>					2340.00
9	01.03.39	Electricity charges					500.00
			<b>Total</b>				<b>6991.95</b>
10	01.03.38	Contingencies @ 5%					349.597
			<b>2020-21 Total for 500 plants</b>				<b>7341.55</b>
		<b>cost of each plant</b>					<b>14.6831</b>

  
 Forest Divisional Officer  
 Adilabad  
 5/5/2021

## UNIT COST FOR MAINTENANCE OF BAG PLANTS (September to till disposal) (9x11)

Sl. No.	FSR-2020- 21 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	177.14	1	708.56
2	01.05.02	Shifting, grading and rearrangement in beds	Bed/weeding	1	245.96	1	245.96
3	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.	Watcher/month	5	9194.85	100	459.74
		<b>Total</b>					1414.26
		<b>cost of each plant (500 Plants per bed)</b>					2.8285

  
 Forest Divisional Officer  
 Adilabad  
 31/5/2021

**UNIT COST FOR MEDICINAL PLANTATION ON SCTs (700 plants per Ha) (FSR 2020-21 )**

Sl No	Item No.	Schedule of operations with Specification	Unit	Qty	Rate (in Rs)	Per	Amount
1	2	3	4	5	6	7	8
	03.02.08	<b>Raising</b>					
		A) Alignment and stacking	No	700	80.38	100	563
		B) cost of preparation of stacks (0.45Mts length and transportation to the sites.	No	700	56.96	100	399
		C) Digging of 30 Cm <sup>2</sup> Pits to be done during June	No	700	4.78	1	3346
		D) Transportation of Seedlings- up to 5Kms	No	700	115.19	100	806
		- 5 to 25 Kms (20 Km x 3.85)	No	700	77.00	100	539
		c) Internal transportation	No	700	91.82	100	643
		d) Planting	No	700	437.48	100	3062
		Replacement of Casualties: 25% in 1st year (In case of Eucalyptus: no casualty replacement). The list of all casualty points shall be prepared by concerned FRO 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. ( 700 & 20% = 140 Nos)	140				
		a) Pitting	No	140	2.39	1	335
		b) Transportation of Seedlings- up to 5Kms	No	140	115.19	100	161
		- 5 to 25 Kms (20 Km x 3.85)	No	140	77.00	100	108
		c) Internal transportation	No	140	91.82	100	129
		d) Planting	No	140	437.48	100	612
		Two Deep soil workings and saucer formation during June - July and September - October	No	700	437.48	100	6124
					<b>Total</b>		<b>16827</b>

**UNIT RATE : P. Ha**

**16827.00** As per FSR 2020-21 per Ha

**18509.70** 10% escalation for 2021-22

or **16827.00** per Ha

Forest Divisional Officer  
Adilabad

*[Signature]*  
S. J. Rao  
15/10/2021

## 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	374.48	Plantation	374
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	2081.36	Ha	83
	(b) Very light jungle growth (>10% and upto 20% covered with Jungle growth)	0.40	3128.53	Ha	125
	(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	7350	Ha	147
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.	150	6.14	Rmt	92
02.01.05	Alignment and stacking including demarcation of baseline				
	(a) 5x5 m espacement	400	118.91	100 No's	47
02.01.04	Cost of preparation of stakes (0.45 m length) and transportation to site	400	56.96	100 No's	22
02.01.06	Digging of pits (1x1x1 mt) cube pits by machine	400	80.00	Each	3200
02.01.08	Digging of SCTs	50.6	328.34	cum	166
SSR	Cost and transportation of soil mixtue for filling half of the pit and spreading around the pit - $0.5 \times 0.5 \times 0.5 = 0.125$ cum ( $0.125 \times 400 = 50$ )	50	231.14	cum	115
			Total		657
			Unit Rate for 2020-21		657

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5/5/2021

**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)				
	(9"X11") bag plants	400	243.66	100 Nos.,	975.00
02.02.02	<b>Transportation of Planting Stock</b> (including loading and unloading) more than 5 km distance and upto 25 km distance				
	(9"X11") bag plants (20 x 8.56=171.20)	400	171.20	100 Nos.,	685.00
02.02.03	<b>Transportation of Planting Stock</b> (including loading and unloading) more than 25 km distance and for every extra km (with prior written approval of Circle Head)				
	(9"X11") bag plants	400	83.00	100 Nos.,	332.00
02.02.04	<b>Internal transportation</b> to planting points on head loads				
	(9"X11") bag plants	400	164.84	100 Nos.,	659.00
	<b>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)</b>				
02.02.05	<b>Application of 50 gm of SSP per pit</b> (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	400	39.27	100 Nos.,	157
02.02.06	<b>Cost of SSP, Chloridine dust (50 gm) or Chloropyriphos (Rs. 2/- per plant)</b>	As per actual	800	Ha.	2222
02.02.07	<b>Planting in 60 cm<sup>3</sup> Pit</b>	400	970.88	100 Nos.,	3884
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)	400	1200.00	100.00	4800
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	400	1059.44	100 Nos.,	4238
02.02.10	<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.	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 1 Mt cube size in hard gravelly and moram by machine	80	80.00	Each	6400
02.02.01	Transportation of planting stock (including loading and unloading upto a distance of 5 Kms)	80	243.66	100 Nos.,	195
02.02.02	<b>Transportation of Planting Stock</b> (including loading and unloading) more than 5 km distance and upto 25 km distance	80	171.20	100 Nos.,	137
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)	80	83.00	100 Nos.,	66
02.02.04	<b>Internal transportation</b> to planting points on head loads	80	164.84	100 Nos.,	132
02.02.07	(b) <b>Planting in 60 cm<sup>3</sup> Pit</b>	80	970.88	100 Nos.,	777
02.02.11	<b>Cost of DAP @ 25 gm / planting point</b>	400	1.20	Each	480
02.02.12	<b>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.</b>	400	39.27	100 Nos.,	157

FSR Item No.	Description	Quantity	Rate (Rs.)	Per	Amount (Rs.)
02.02.13	Weeding and saucer formation to a radius of 0.5 mts around the plant immediately after planting (i.e) during June.	400	125.00	100 Nos.,	500
02.02.14	Circular weeding to a radius of 0.50 m around the plant (i.e., Aug - Sept)	400	125.00	100 Nos.,	500
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	400	656.25	100 Nos.,	2625
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	975.45	Ha.	975
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. $Rs.9194.85 \times 12 \times 2/30$	1	7356	Ha	7356
			Total		3825
			Unit Rate for 2020-21		3825

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FSR Item No.	Description	Quantity	Rate (Rs.)	Per	Unit area 1.00 Ha.
01.03.05	Cost of transportation of soil mixtue for filling the pit and spreading around the pit - 25 % of pit - $0.25 \times 0.6 \text{ cm} \times 0.6 \text{ cm} \times 0.6 \text{ cm}$	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 1 Mt cube size in hard gravelly and moram by machine	100	80.00	Each	8000
02.02.01	Transportation of planting stock (including loading and unlaoding upto a distance of 5 Kms)	100	243.66	100 Nos.,	244
02.02.02	<b>Transportation of Planting Stock</b> (including loading and unloading) more than 5 km distance and upto 25 km distance	100	171.2	100 Nos.,	171
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)	100	83	100 Nos.,	83
02.02.04	Internal transportation to planting points on head loads	100	164.84	100 Nos.,	165
02.02.07	(b) Planting in $60 \text{ cm}^3$ Pit	100	970.88	100 Nos.,	971
02.02.11	<b>Cost of DAP @ 25 gm / planting point</b>	400	1.12	Each	448
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	400	1059.44	100 Nos.,	4238
02.03.02	Weeding and saucer formation to a radius of 0.5 mts around the plant immediately after planting (i.e) during June.	400	125.00	100 Nos.,	500
02.03.03	Circular weeding to a radius of 0.50 m around the plant (i.e. Aug - Sept)	400	125.00	100 Nos.,	500
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	400	656.25	100 Nos.,	2625
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	975.45	Ha.	975
02.03.06	<b>Pruning of lower branch initials</b> of Timber and NTFP species by scicature upto 1/3 rd height during October	400	124.27	100 Nos.,	497
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	608.27	100 Rmt	608
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. $Rs.9194.85 \times 12 * 2 / 30$	1	7356	Ha	7356
			<b>Total</b>		<b>34989</b>
			Unit Rate for 2020-21		34989

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2nd 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.)
02.03.01	<b>Replacement of Casualties:</b> 20% during Raising Year & 25% in 1 <sup>st</sup> year The caualty 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	20	80.00	Each	1600
02.02.01	Transportation of planting stock (including loading and unlaodding upto a distance of 5 Kms)	20	243.66	100 Nos.,	49
02.02.02	Transportation of Planting Stock (including loading and unloading) more than 5 km distance and upto 25 km distance	20	171.20	100 Nos.,	34
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)	20	83.00	100 Nos.,	1
02.02.04	Internal transportation to planting points on head loads	20	164.84	100 Nos.,	3
02.02.07	(b) Planting in 60 cm <sup>3</sup> Pit	20	970.88	100 Nos.,	19
02.02.11	Cost of DAP @ 25 gm / planting point	400	1.12	Each	44
02.04.01	Weeding and saucer formation to a radius of 0.5 mts around the plant immediately after planting (i.e) during June.	400	119.05	100 Nos.,	47
02.04.02	Circular weeding to a radius of 0.50 m around the plant (i.e. Aug - Sept)	400	119.05	100 Nos.,	47
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	400	625.00	100 Nos.,	25
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	975.45	Ha.	9
02.03.06	Pruning of lower branch initials of Timber and NTFP species by scicature upto 1/3 rd height during October	400	124.27	100 Nos.,	4
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	608.27	100 Rmt	6
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.9194.85 x 12 *2/30	1	7356	Ha	73
			Total		152
			Unit Rate for 2020-21		152

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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.	400	125.00	100 Nos.,	500
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	400	656.25	100 Nos.,	2625
02.03.06	<b>Pruning of lower branch initials</b> of Timber and NTFP species by scicature upto 1/3 rd height during October	400	124.27	100 Nos.,	497
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	608.27	100 Rmt	608
02.04.06	<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. $Rs.9194.85 \times 6 *2/30$	1	3678	Ha	3678
			<b>Total</b>		<b>7908</b>
		Unit Rate for 2020-21			7908

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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.	400	125.00	100 Nos.,	500
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	400	656.25	100 Nos.,	2625
02.03.06	Pruning of lower branch initials of Timber and NTFP species by scicature upto 1/3 rd height during October	400	124.27	100 Nos.,	497
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	608.27	100 Rmt	608
02.04.07	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. $Rs.9194.85 \times 4 * 2/30$	1	2452	Ha	2452
				Total	6682
				Unit Rate for 2020-21	6682

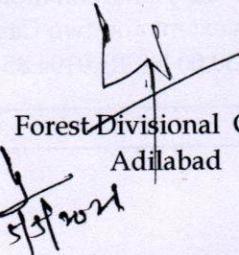
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5/5/2021

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

Unit area 1.00 Ha.

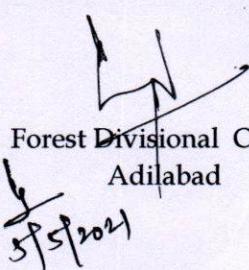
FSR Item No.	Description	Quantity	Rate (Rs.)	Per	Amount (Rs.)
02.03.06	Pruning of lower branch initials of Timber and NTFP species by scicature upto 1/3 rd height during October	400	124.27	100 Nos.,	497
02.04.03	Deep soil working to a radius of 0.5 m and to a depth of 10 cm (to be done by pick-axe only) without damaging the plant (to be carried out during Nov - Dec)				
	(b) For hard gravelly soil -1 time	400	656.25	100 Nos.,	2625
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	608.27	100 Rmt	608
			<b>Total</b>		<b>3730</b>
			Unit Rate for 2020-21		3730

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

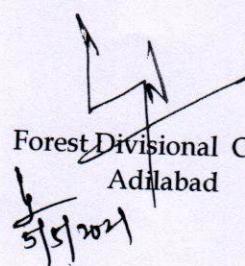
**Unit area 1.00 Ha.**

<b>FSR I. 2m No.</b>	<b>Description</b>	<b>Quantity</b>	<b>Rate (Rs.)</b>	<b>Per</b>	<b>Amount (Rs.)</b>
<b>02.03.06</b>	<b>Pruning of lower branch initials of Timber and NTFP species by scicature upto 1/3 rd height during October</b>	400	124.27	100 Nos.,	497
<b>03.05.01</b>	<b>Maintenance of fire lines (5.00 mtr width) including cutting back of rank growth and burning - propotionate cost - 0.60 times</b>	100	608.27	100 Rmt	608
<b>Total</b>					<b>1105</b>
<b>Unit Rate for 2020-21</b>					<b>1105</b>

  
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7th 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.)
02.04.03	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	400	656.25	100 Nos.,	2625
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	608.27	100 Rmt	608
				Total	3233
				Unit Rate for 2020-21	3233

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

FSR Item No.	Description	Unit area 1.00 Ha.			
		Quantity	Rate (Rs.)	Per	Amo (Rs.)
02.03.06	Pruning of lower branch initials of Timber and NTFP species by scicature upto 1/3 rd height during October	400	124.27	100 Nos.,	497
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	608.27	100 Rmt	608
				Total	1105
Unit Rate for 2020-21					1105

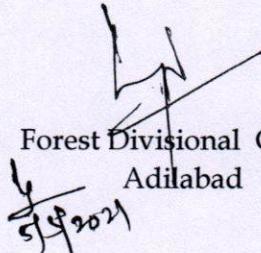
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5/5/2021

**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	400	656.25	100 Nos.,	2625
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	608.27	100 Rmt	608
				<b>Total</b>	<b>3233</b>
		Unit Rate for 2020-21			3233

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

<u>Unit area 1.00 H</u>					
<b>FSR Item No.</b>	<b>Description</b>	<b>Quantity</b>	<b>Rate (Rs.)</b>	<b>Per</b>	<b>Amount (Rs.)</b>
<b>02.03.06</b>	<b>Pruning of lower branch initials of Timber and NTFP species by scicature upto 1/3 rd height during October</b>	400	124.27	100 Nos.,	4
<b>03.05.01</b>	<b>Maintenance of fire lines (5.00 mtr width) including cutting back of rank growth and burning - propotionate cost - 0.60 times</b>	100	608.27	100 Rmt	6
			<b>Total</b>		<b>11</b>
			<b>Unit Rate for 2020-21</b>		<b>110</b>

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