

**Advance operatoin works**

Sl. No	Advance works	FSR Item No.	Qty	Rate	Unit	Amount
1	Survey with GP)s	02.08.01	1	356.65	Ha	356.65
2	Clearing of unsalable unwanted junglegrowth	02.08.02				
	a)Sparse jungle growth (<10% to ground ara covered with jungle growth)		1	1982.25	Ha	1982.25
2	Uprootal f stumps					
	a)Sparse jungle growth (<10% to ground ara covered with jungle growth)	02.08.03	1	5184.3	Ha	5184.30
3	Collection and removal of uprooted stumps					
	a)Sparse jungle growth (<10% to ground ara covered with jungle growth)	02.08.04	1	5520.1	Ha	5520.10
4	Tilling the soil to a depth of 0.45 cmin the effective area					
	a)Sparse jungle growth (<10% to ground ara covered with jungle growth)	02.08.05	1	16378.65	Ha	16378.65
	Misce.					479.00
	Total					29900.95
	Add 10% escalation on Approved FSR2019-20					2990.10
	Total					32891.05

Unit cost 2019-20	0.36
Unit cost 2020-21	0.40
Unit cost 2021-22	0.44
Unit cost 2022-23	0.48156
Unit cost 2023-24	0.52971
Unit cost 2024-25	0.58268
Unit cost 2025-26	0.64095
Unit cost 2026-27	0.70505
Unit cost 2027-28	0.77555
Unit cost 2028-29	0.85311
Unit cost 2029-30	0.93842
Unit cost 2030-31	1.03226
Unit cost 2031-32	1.13549
Unit cost 2032-33	1.24904
Unit cost 2033-34	1.37394



**District Forest Officer,  
Siddipet**

**Raising of SMM**

Sl.No	PLANTING OPERATIONS DURING RAISING YEAR	FSR Item No.	Qty	Rate	Unit	Amount
1	Removing congestion of root suckers	02.09.01	20	1015.3	ha	20306.00
2	Deep ploughing	02.09.03	20	3056	ha	61120.00
3	Alignment	02.09.04	22220	76.55	100	17009.41
4	Cost of preparation	02.09.05	22220	54.25	100	12054.35
	Cost of preparation of stakes	02.09.05(2)	22220	860	100	191092.00
5	Digging of pits	02.09.06	22220	10.15	each	225533.00
6	Transportation up to 5km	02.09.07	22220	196.6	100	43684.52
7	transportation beyond 5km	02.09.08	22220	7.65	100	1699.83
8	Internal	02.09.10	22220	135.25	100	30052.55
9	Cost of ssp	02.09.11(B)	1111	15	kg	16665.00
10	Application of fertiliser	02.09.11(A)	22220	37.4	100	8310.28
11	PLANTING OPERATIONS DURING RAISING YEAR	02.09.12	22220	416.65	100	92579.63
12	Cost of Dap	02.09.16	555.5	25	kg	13887.50
13	Application of Dap	02.09.17	22220	37.4	100	8310.28
14	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 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. <i>The casualty replacement shall be completed by end of July.</i>	02.09.15	4444	10.175	each	45217.7
15	Weeding and Saucer formation to a radius of 0.50 m around the plant immediately after planting during June	02.09.18	22220	119.00	100	26441.8
16	Uprootal of Mahaveera weed	02.09.22	20	3477.05	Ha	69541
17	Inter ploughing	02.09.20	20	3184.50	1	63690
18	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)	02.09.19				
	(b) For hard gravelly soil		22220	625.00	100	138875
19	Pruning of lower branch initials of Timber and NTFP species by scicature upto 1/3 rd height during October.	02.09.21	22220	118.30	100	26286.26
20	MISCE	02.09.24				5000
21	Watch & ward	02.09.25	12	8757.00	1	105084

Total 1222440.11

Unit cost per ha 0.611220055

Unit cost 2019-20 0.67

Unit cost 2020-21 0.74

Unit cost 2021-22 0.81353

Unit cost 2022-23 0.89489

Unit cost 2023-24 0.98438

Unit cost 2024-25 1.08281

Unit cost 2025-26 1.19109

Unit cost 2026-27 1.31020

Unit cost 2027-28 1.44122

Unit cost 2028-29 1.58535

Unit cost 2029-30 1.74388

Unit cost 2031-32 1.91827

Unit cost 2032-33 2.11010

  
District Forest Officer,  
Siddipet

**1st year SMM 20Ha**

Sl.No	PLANTING OPERATIONS DURING RAISING YEAR	FSR Item No.	Qty	Rate	Unit	Amount
1	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 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. <i>The casualty replacement shall be completed by end of July.</i>	02.10.01	5555	15	each	83325
2	Weeding and Saucer formation to a radius of 0.50 m around the plant immediately after planting during June	02.10.02	22220	119.00	100	26441.8
3	Weeding and Saucer formation to a radius of 0.50 m around the plant during August to September	02.10.03	22220	119.00	100	26441.8
4	Uprootal of Mahaveera weed	02.10.04	20	3477.05	Ha	69541
5	Inter ploughing	02.10.05	20	2321.40	1	46428
6	<b>Pruning of lower branch initials</b> of Timber and NTFP species by sciculture upto 1/3 rd height <i>during October.</i>	02.10.06	22220	118.35	100	26297.37
7	MISCE	02.10.08	Ls			3000
8	Watch & ward	02.10.09	12	8757.00	1	105084
						<b>386559</b>

**19327.95**

Unit cost 2019-20	0.19
Unit cost 2020-21	0.21
Unit cost 2021-22	0.23
Unit cost 2022-23	0.26
Unit cost 2023-24	0.28
Unit cost 2024-25	0.31
Unit cost 2025-26	0.34241
Unit cost 2026-27	0.37665
Unit cost 2027-28	0.41431
Unit cost 2028-29	0.45574
Unit cost 2029-30	0.50132
Unit cost 2030-31	0.55145
Unit cost 2031-32	0.60659
Unit cost 2032-33	0.66725

  
**District Forest Officer,**  
**Siddipet**

## 2nd year SMM 20Ha

Sl.No	PLANTING OPERATIONS DURING RAISING YEAR	FSR Item No.	Qty	Rate	Unit	Amount
1	Broadcasting of Stylosanthes Hamata Seed in interploughing rows of the plantations raised under SMM	02.11.01				
	(a) Cost of stylo hamata seed		40	65	Kg	2600.00
	(b) Inter ploughing		20	1901.15	Ha.	38023
	(c) Broadcasting of Stylosanthes Hamata Seed		20	84.60	Ha.	1692
2	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 July to August)	02.11.02	22220	625.00	100	138875
3	Pruning of lower branch initials of Timber and NTFP species by scicature upto 1/3 rd height during October.	02.11.01	22220	118.35	100	26297.37
4	Watch & ward		12	8340.00	1	100080
5	MISCE					3000
						<b>310567.37</b>

**Unit cost****15528.4**

Unit cost 2019-20	0.15528
Unit cost 2020-21	0.17081
Unit cost 2021-22	0.18789
Unit cost 2022-23	0.20668
Unit cost 2023-24	0.22735
Unit cost 2024-25	0.25009
Unit cost 2025-26	0.27509
Unit cost 2026-27	0.30260
Unit cost 2027-28	0.33286
Unit cost 2028-29	0.36615
Unit cost 2029-30	0.40277
Unit cost 2030-31	0.44304
Unit cost 2031-32	0.48735
Unit cost 2032-33	0.53608
Unit cost 2033-34	0.58969
Unit cost 2034-35	0.64866



**District Forest Officer,  
Siddipet**

### 5x9 Raising 1.00 Lakh

New	Schedule of operations with Specification	Qty.	Rate	Unit	Amount
<b>01.03.00</b>					
<b>01.03.02</b>	Site preparation for <b>Old Site</b> - Clearing of growth, weeds, grass etc.,	59	13.25	Bed	781.75
<b>01.03.03</b>	<b>Cost of Polybags</b> (including the cost of certification): 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. (a) 10 cm x 17.5 cm (4" x 7") size bags of 200 g: 589 bags / kg (b) 12.5 cm x 22.5 cm (5" x 9") size bags: 200 g: 366 bags / kg	300	165	As per approved Tender Rate finalized by the procurement committee.	49500
<b>01.03.04</b>	<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>01.03.05</b>	<i>Distance up to 5 km</i>				
	(a) 10 cm x 17.5 cm (5" x 9") = 0.56 cum vol. for 1000 bags	100000	394.5	1000	39450
<b>01.03.06</b>	<i>For every extra km beyond 5 km upto 25 km</i>				
	(a) 10 cm x 17.5 cm (5x9") = 0.56 cum vol. for 1000 bags	100000	10.3	1000	20600
<b>01.03.07</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 and gently pressing the same with finger tips and arranging in beds.				
	(a) 10 cm x 17.5 cm (4" x 7") size bags: 2600 bags / bed	100000	952.80	1000	95280
	Cost of seed	100000	500.00	1000	50000
<b>01.03.10</b>	<b>Sowing / dibbling of pre-treated seeds</b> (e.g. Yegisa, Nalamadi, Yerumaddi etc.) directly into bags including cost of treatment	<b>100000</b>	83.70	1000	8370
<b>01.03.11</b>	<b>Watering</b> the plants <i>twice a day</i> from February - March				
	(a) <i>Manually</i> with rose cans or finely perforated nozzle attached to a hose pipe	59	273.10	Bed / month	80564.5
<b>01.03.12</b>	Weeding the beds during March (2 )	59	50.15	Bed / weeding	5917.7
<b>01.03.13</b>	<b>Shifting, Grading and rearranging in beds</b> of 10 m x 1 m size beds (2600 no. of 4"x7"bags; 1700 no. of 5"x9" bags) - <b>One Grading</b> in March.	59	234.25	Bed / shifting	13820.75
<b>01.03.14</b>	<b>Replacement of casualties</b> after sorting out the empty bags and keeping at one end of the bed (maximum 10% of total stock is permissible)	<b>5.9</b>	66.50	Bed	392.35
<b>01.03.15</b>	<b>Cost of foliar nutrient formulations</b> like multiplex or NPK-19:19:19; fungicides and insecticides from July to Oct.			As per actuals with a maximum limit of Rs. 2000/ per 1 lakh polybag seedlings.	2000
<b>01.03.16</b>	<b>Application prophylactic foliar spray</b> of 0.2% of Carbendazim / Dithane M-45 and any organo-phosphate (Monocrotophos / Phosphamidon @ 3-4 ml in 1 lit of water) at regular interval (once in a month) alternatively. Similarly application of multiplex or NPK 19:19:19 (a teaspoon in 1 lit water) - once in a month - to start 1 month after conversion by back-packed power-sprayer (preferably in morning or evening and no watering for at least 12 hours after spray)			By Nursery Watcher	
<b>01.03.17</b>	<b>Weeding in the space between the beds</b> , inspection path and surroundings of Nursery	<b>59</b>	34.20	Bed	2017.8
	Cost of protection	5	8754.60	month	43773
					<b>412467.85</b>
	<b>Conti. 3%</b>				12374.0355
					<b>424841.886</b>

Add 30%

552294.451

**Unit cost per plant**

**5.52**



**District Forest Officer,  
Siddipet**

## 1.00 lakh Nursery maint. 5x9

New Item No.	Schedule of operations with Specification	Qty.	Rate	Unit	Amount
01.04.01	Watering the plants manually twice a day (from April to June) with rose cans or finely perforated nozzle attached to a hose pipe.				
01.04.02	<b>Weeding the plants</b> (1100 no. of 6"x12"bags; 800 no. of 8"x12" bags; and 400 no. of 10"x16" bags) 2 <i>weedings</i>	59	50.15	Bed / weeding	2958.85
	(a) 1 <sup>st</sup> weeding during the maintenance year	59	273.10	Per bed / month	64451.6
01.04.03	<b>Shifting, Grading and rearranging in secondary beds</b>	59	234.25	Bed / weeding	27641.5
01.04.05	<b>Cost of foliar nutrient formulations like NPK-19:19:19; fungicides and insecticides</b>			As per actuals	2000
	Cost of protection	5	8754.60	month	218865
					<b>315917</b>
01.04.08	<b>Contingencies 3%</b>				9478
					<b>325394</b>

Add 40%

455552.2

**Unit cost per plant**

**4.556**



**District Forest Officer,  
Siddipet**

## 1.00 lakh Nursery conversion 5x9 to 8x12

New Item No.	Schedule of operations with Specification	Qty.	Rate	Unit	Amount
	Cost of polythene bags	1163	165.00	Kg	191895
01.03.24	<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.				
	(e) 5" x 9" polybags to 8" x 12" polybags (3.82 - 1.12 = 2.70 cum)	100000	979.00	1000 bags	97900
01.03.25	(e) 5" x 9" polybags to 8" x 12" polybags (3.82 - 1.12 = 2.70 cum)	100000	24.80	1000 bags	49600
01.03.26	Cost of Chemical Component	As per actuals			5000
01.03.27	<b>Preparation of Potting Mixture</b> by powdering of various ingredients, sieving and mixing them in prescribed proportion; <b>opening of bags</b> and filling with potting mixture partially, <b>tearing the polybag plants</b> and <b>repotting them inside bigger bags</b> and filling the rest of bags; gently pressing the same with finger tips and <b>arranging</b> in beds of 10 m x 1 m size				
	(e) 5" x 9" polybags to 8" x 12" polybags (3.82 - 1.12 = 2.70 cum)	100000	1695.45	1000 bags	169545
01.03.32	Stakes to be provided to plants in 8 x 12 bags	100000	2358.75	1000 bags	235875
01.03.33	<b>Weeding the plants</b> (1100 no. of 6"x12"bags; 800 no. of 8"x12" bags; and 400 no. of 10"x16" bags) <i>from November - March: 2 weedings</i>				
	(a) 1 <sup>st</sup> weeding - December	250	50.15	Bed / weeding	12537.5
	(a) 2nd weeding - February	250	50.15	Bed / weeding	12537.5
01.03.34	<b>Shifting, Grading and rearranging in secondary beds - One Grading in February</b>	250	234.25	Bed / weeding	117125
01.03.35	Watering the plants manually twice a day (from November - March) with rose cans or finely perforated nozzle attached to a hose pipe.	250	273.15	Per bed / month	341437.5
01.03.37	<b>Cost of foliar nutrient formulations</b> like NPK-19:19:19; fungicides and insecticides (from Dec - March)			As per actuals	2000
	<b>Sub Total</b>				1235452.5
	<b>Contingencies 3%</b>				37063.575
	Cost of protection	5	8754.60	month	218865
	Electricity Charges, Running and Maintenance				25000
	<b>Grand Total</b>				<b>1516381.075</b>

Add 40%

606552.43  
2122933.505

**Unit cost per plant**

**21.229**

**District Forest Officer,  
Siddipet**

## 1.00 lakh Nursery maint. 8x12

New Item No.	Schedule of operations with Specification	Qty.	Rate	Unit	Amount
01.04.01	Watering the plants manually twice a day (from April to June) with rose cans or finely perforated nozzle attached to a hose pipe.	250	273.10	Per bed / month	273100
01.04.02	<b>Weeding the plants</b> (1100 no. of 6"x12"bags; 800 no. of 8"x12" bags; and 400 no. of 10"x16" bags) 2 weeding				
	(a) 1 <sup>st</sup> weeding during the maintenance year	250	50.15	Bed / weeding	12537.5
01.04.03	<b>Shifting, Grading and rearranging in secondary beds</b>	250	234.25	Bed / weeding	117125
01.04.05	<b>Cost</b> of foliar nutritient formulations like NPK-19:19:19; fungicides and insecticides			As per actuals with a	2000
	Cost of protection	5	8754.60	month	218865
					<b>623627.5</b>
01.04.08	<b>Contingencies 3%</b>				18709
					<b>642336</b>

Add 50%

963504.5

**Unit cost per plant**

**9.635**

  
**District Forest Officer,**  
**Siddipet**



# ABSTRACT FOR ADVANCE WORKS FOR RAISING OF PLANTATIONS

Sl. No	Model	Year of Advance operations	Target Area in Ha	Cost of Advance operations		
				Phy. (Area In Ha)	Unit Cost (Rs. in Lakhs)	Fin (Rs. in Lakhs)
1	Semi Mechanical Plntn (3M x 2M)	2023-24	8.96	8.9600	0.530	4.74620
<b>SMM Total:</b>				<b>8.9600</b>		<b>4.74620</b>

  
 District Forest Officer,  
 Siddipet

ABSTRACT FOR RAISING OF PLANTATIONS

Sl. No	Model	Year of Raising	Target Area in Ha	Cost of raising		
				Phy. (Area In Ha)	Unit Cost (Rs. in Lakhs)	Fin (Rs. in Lakhs)
1	Semi Mechanical Pltn (3M x 2M)	2024-25	8.96	8.96	1.08281	9.70198
SMM Total:				8.9600		9.70198

  
District Forest Officer,  
Siddipet

# ABSTRACT FOR 1<sup>ST</sup> YEAR MAINTENANCE OF PLANTATIONS

Sl. No	Model	Year of Raising	Target Area in Ha	Cost of 1st year maintenance		
				Phy. (Area In Ha)	Unit Cost (Rs. in Lakhs)	Fin (Rs. in Lakhs)
1	Semi Mechanical Pltn (3M x 2M)	2025-26	8.96	8.9600	0.34241	3.06799
SMM Total:				8.9600		3.06799

  
 District Forest Officer,  
 Siddipet

# ABSTRACT FOR 2<sup>ND</sup> YEAR MAINTENANCE OF PLANTATIONS

Sl. No	Model	Year of Raising	Target Area in Ha	Cost of 2nd year maintenance		
				Phy. (Area In Ha)	Unit Cost (Rs. in Lakhs)	Fin (Rs. in Lakhs)
1	Semi Mechanical Pltn (3M x 2M)	2026-27	8.96	8.9600	0.30260	2.71130
SMM Total:				8.9600		2.71130

  
District Forest Officer,  
Siddipet


# ABSTRACT FOR 3<sup>RD</sup> YEAR MAINTENANCE OF PLANTATIONS

Sl. No	Model	Year of Raising	Target Area in Ha	Cost of 3rd year maintenance		
				Phy. (Area In Ha)	Unit Cost (Rs. in Lakhs)	Fin (Rs. in Lakhs)
1	Semi Mechanical Pltn (3M x 2M)	2027-28	8.96	8.9600	0.33286	2.98243
SMM Total:				8.9600		2.98243

  
 District Forest Officer,  
 Siddipet

# ABSTRACT FOR 4<sup>TH</sup> YEAR MAINTENANCE OF PLANTATIONS

Sl. No	Model	Year of Raising	Target Area in Ha	Cost of 4th year maintenance		
				Phy. (Area In Ha)	Unit Cost (Rs. in Lakhs)	Fin (Rs. in Lakhs)
1	Semi Mechanical Pltn (3M x 2M)	2028-29	8.96	8.9600	0.36615	3.28067
SMM Total:				8.9600		3.28067

  
 District Forest Officer,  
 Siddipet


# ABSTRACT FOR 5<sup>TH</sup> YEAR MAINTENANCE OF PLANTATIONS

Sl. No	Model	Year of Raising	Target Area in Ha	Cost of 5th year maintenance		
				Phy. (Area In Ha)	Unit Cost (Rs. in Lakhs)	Fin (Rs. in Lakhs)
1	Semi Mechanical Plntn (3M x 2M)	2029-30	8.96	8.9600	0.40276	3.60873
SMM Total:				8.9600		3.60873

  
 District Forest Officer,  
 Siddipet

# ABSTRACT FOR 6<sup>TH</sup> YEAR MAINTENANCE OF PLANTATIONS


Sl. No	Model	Year of Raising	Target Area in Ha	Cost of 6th year maintenance		
				Phy. (Area In Ha)	Unit Cost (Rs. in Lakhs)	Fin (Rs. in Lakhs)
1	Semi Mechanical Pltn (3M x 2M)	2030-31	8.96	8.9600	0.44304	3.96961
SMM Total:				8.9600		3.96961

  
 District Forest Officer,  
 Siddipet



# ABSTRACT FOR 8<sup>TH</sup> YEAR MAINTENANCE OF PLANTATIONS

Sl. No	Model	Year of Raising	Target Area in Ha	Cost of 7th year maintenance		
				Phy. (Area In Ha)	Unit Cost (Rs. in Lakhs)	Fin (Rs. in Lakhs)
1	Semi Mechanical Pltn (3M x 2M)	2032-33	8.96	8.9600	0.53607	4.80323
SMM Total:				8.9600		4.80323

  
 District Forest Officer,  
 Siddipet

# ABSTRACT FOR 9<sup>TH</sup> YEAR MAINTENANCE OF PLANTATIONS

Sl. No	Model	Year of Raising	Target Area in Ha	Cost of 7th year maintenance		
				Phy. (Area In Ha)	Unit Cost (Rs. in Lakhs)	Fin (Rs. in Lakhs)
1	Semi Mechanical Plntn (3M x 2M)	2033-34	8.96	8.9600	0.58968	5.28355
SMM Total:				8.9600		5.28355

  
 District Forest Officer,  
 Siddipet

# ABSTRACT FOR 10<sup>TH</sup> YEAR MAINTENANCE OF PLANTATIONS

Sl. No	Model	Year of Raising	Target Area in Ha	Cost of 7th year maintenance		
				Phy. (Area In Ha)	Unit Cost (Rs. in Lakhs)	Fin (Rs. in Lakhs)
1	Semi Mechanical Pltn (3M x 2M)	2034-35	8.96	8.9600	0.64865	5.81190
SMM Total:				8.9600		5.81190

  
 District Forest Officer,  
 Siddipet