


Unit Cost for 1 Ha. Advance Operations under Labour Intensive Method

(FSR 2021-22 RATES ARE ADOPTED)

Unit area 1.00 Ha,

FSR Item No.	Description	Quantity	Rate (Rs.)	Per	Amount (Rs.)
02.01.00	ADVANCE OPERATION (PRE-PLANTING OPERATION) - 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	393.21	Plantation	393
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.				
	(b) Very light jungle growth (>10% and upto 20% covered with Jungle growth)	1.00	3284.95	Ha	3285
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	6.45	Rmt	645
02.01.05	Alignment and stacking including demarcation of baseline	100	124.86	100 No's	125
02.01.04	Cost of preparation of stakes (0.45 m length) and transportation to site	100	59.81	100 No's	60
02.01.07	Digging of pits				
	(b) (ii) 60 cm cube size in hard gravelly and moram Soil (Manual)	100	50.59	Each	5059
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	21.6	203.90	cum	4404
			Total		13971
		Unit Rate for 2021-22			13971
	Add 10% for 2022-23 over the adopted rates	2022-23			15368.1
	Add 10% for 2023-24 over the adopted rates	2023-24			16904.91


District Forest Officer,
Siddipet

Unit Cost for 1 Ha. Raising of Plantation under Labour Intensive Method

(FSR 2021-22 RATES ARE ADOPTED)

Unit area 1.00 Ha.

FSR Item No.	Description	Quantity	Rate (Rs.)	Per	Amount (Rs.)
02.02.00	Planting Operations during raising year				
	Cost of tall plants	125	160	1 Nos	20000.00
02.02.01	Transportation of planting stock (including loading and unloading upto a distance of 5 Kms)				
	(a) 20 X 30 cm (8"X12") bag plants	100	227.07	100 Nos.,	227.00
02.02.02	Transportation of Planting Stock (including loading and unloading) more than 5 km distance and upto 25 km distance				
	(a) 20 X 30 cm (8"X12") bag plants	100	8.42	100 Nos.,	8.00
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)				
	(a). 20 X 30 cm (8"X12") bag plants	100	4.24	100 Nos.,	4.00
02.02.04	Internal transportation to planting points on head loads				
	(a) 20 X 30 cm (8"X12") bag plants	100	149.11	100 Nos.,	149
	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	100	41.23	100 Nos.,	41
02.02.06	Cost of SSP, Chloridine dust (50 gm) or Chloropyriphos (Rs. 2/- per plant)	100	As per actual	Ha.	200
02.02.07	Planting in 60 cm ³ Pit	100	1019.43	100 Nos.,	1019
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)	100	1260.00	100.00	1260
02.02.09	Watering (one time) immediately after planting if the planting takes place on a non-rainy days and during dry spell - 2 waterings	100	556.22	100 Nos.,	556
02.02.10	Replacement of Casualties: 20% during Raising Year & 25% in 1st 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)	20	25.295	Each	506
02.02.01	Transportation of planting stock (including loading and unloading upto a distance of 5 Kms)	20	227.07	100 Nos.,	45
02.02.02	Transportation of Planting Stock (including loading and unloading) more than 5 km distance and upto 25 km distance	20	8.42	100 Nos.,	2
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	4.24	100 Nos.,	1
02.02.04	Internal transportation to planting points on head loads	20	149.11	100 Nos.,	30
02.02.07	(b) Planting in 60 cm ³ Pit	20	1019.43	100 Nos.,	204
02.02.11	Cost of DAP @ 25 gm / planting point	100	2.00	Each	200

FSR Item No.	Description	Quantity	Rate (Rs.)	Per	Amount (Rs.)
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.	100	41.23	100 Nos.,	41
02.02.13	Weeding and saucer formation to a radius of 0.5 mts around the plant immediately after planting (i.e) during June.	100	131.20	100 Nos.,	131
02.02.14	Circular weeding to a radius of 0.50 m around the plant (i.e., Aug - Sept)	100	131.20	100 Nos.,	131
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	100	689.06	100 Nos.,	689
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	1024.00	Ha.	1024
02.02.17	Pruning of Lower branches initials of Timber and NTFP species by scicature upto 1/3 rd height during October	100	130.48	100 Nos.,	130
02.02.21	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.9654.59/10*12	1	11586	Ha	11586
02.02.20	Contingencies rprovision for raising of plantations				
	i) Fixing of plantation Boards and corner stones		As per Actuals		5000
	ii) Contingencies and Miscellaneous (with 5 % of the estimate cost subject to ceiling of Rs.5000/-)		As per Actuals		2200
			Total		45384
			Unit Rate for 2021-22		45384
	Add 10% for 2022-23 over the adopted rates				49921.86
	Add 10% for 2023-24 over the adopted rates				54914.04


 District Forest Officer,
 Siddipet

Unit Cost for 1 Ha. 1st year maintenance of Plantation under Labour Intensive Method

(FSR 2021-22 RATES ARE ADOPTED)

Unit area 1.00 Ha.

FSR Item No.	Description	Quantity	Rate (Rs.)	Per	Amount (Rs.)
02.03.01	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. The casualty replacement shall be completed by end of July.	Pitting, planting, transportation and internal transportation same as prescribed in fresh planting			
		25	61.76	Each	1544.00
02.03.02	Weeding and saucer formation to a radius of 0.5 mts around the plant immediately after planting (i.e) during June.	100	131.20	100 Nos.,	131
02.03.03	Circular weeding to a radius of 0.50 m around the plant (i.e. Aug - Sept)	100	131.20	100 Nos.,	131
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	100	689.06	100 Nos.,	689
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	1024.22	Ha.	1024
02.03.06	Pruning of lower branch initials of Timber and NTFP species by sciculture upto 1/3 rd height during October	100	130.48	100 Nos.,	130
02.03.07	Enumeration of row-wise survival and average growth thrice in 1st MAINTENANCE year - Number of plants planted and number surviving (to be undertaken during May and Dec.) to be ascertained and entered in Plantation Journal. With so much inputs like nutrition, augmentation of moisture status by SCTs and other cultural operations; deploying indigenous forest species and planting of seedlings of minimum height of 0.75 - 1.0 m, it is prescribed that the minimum stocking of 90% with minimum average height of 1.75 - 2 m at the end of 1st year maintenance.	To be done by the staff (Plantation in charge) with the help of plantation watcher			0
02.10.09	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.9654.59/10*12	1	11586	Ha	11586
02.03.08	Contingency provision for maintenance of plantations				
	i) Maintenance for plantation Boards and corner stones	As per Actuals			5000
	ii) Contingencies and Miscellaneous (with 3 % of the estimate cost subject to ceiling of Rs.3000/-)	As per Actuals			1000
			Total		21235
		Unit Rate for 2021-22			21235
	Add 10% for 2022-23 over the adopted rates				23358.50
	Add 10% for 2023-24 over the adopted rates				25694.35
	Add 10% for 2024-25 over the adopted rates				28263.79



District Forest Officer,
Siddipet

Unit Cost for 1 Ha. 2nd year maintenance Plantation under Labour Intensive Method

(FSR 2021-22 RATES ARE ADOPTED)

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.	100	131.20	100 Nos.,	131
02.04.02	Circular weeding to a radius of 0.50 m around the plant (i.e. Aug - Sept)	100	131.20	100 Nos.,	131
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	100	689.06	100 Nos.,	689
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	1024.22	Ha.	1024
02.04.05	Enumeration of row-wise survival and average growth thrice in 1st MAINTENANCE year - Number of plants planted and number surviving (to be undertaken during May and Dec.) to be ascertained and entered in Plantation Journal. With so much inputs like nutrition, augmentation of moisture status by SCTs and other cultural operations; deploying indigenous forest species and planting of seedlings of minimum height of 0.75 - 1.0 m, it is prescribed that the minimum stocking of 90% with minimum average height of 1.75 - 2 m at the end of 1st year maintenance.	To be done by the staff (Plantation in charge) with the help of plantation watcher			0
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.9654.59/10*12	1	23171	Ha	23171
02.04.06	Contingency provision for maintenance of plantations				
	i) Maintenance for plantation Boards and corner stones	As per Actuals			3000
	ii) Contingencies and Miscellaneous (with 3 % of the estimate cost subject to ceiling of Rs.3000/-)	As per Actuals			1000
			Total		29146
		Unit Rate for 2021-22			29146
	Add 10% for 2022-23 over the adopted rates				32060.60
	Add 10% for 2023-24 over the adopted rates				35266.66
	Add 10% for 2024-25 over the adopted rates				38793.33
	Add 10% for 2025-26 over the adopted rates				42672.6586



 District Forest Officer,
 Siddipet

Unit Cost for 1 Ha. 3rd year maintenance Plantation under Labour Intensive Method

(FSR 2021-22 RATES ARE ADOPTED)

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.	100	131.20	100 Nos.,	131
02.04.02	Circular weeding to a radius of 0.50 m around the plant (i.e. Aug - Sept)	100	131.20	100 Nos.,	131
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	100	689.06	100 Nos.,	689
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	1024.22	Ha.	1024
02.04.05	Enumeration of row-wise survival and average growth thrice in 1st MAINTENANCE year - Number of plants planted and number surviving (to be undertaken during May and Dec.) to be ascertained and entered in Plantation Journal. With so much inputs like nutrition, augmentation of moisture status by SCTs and other cultural operations; deploying indigenous forest species and planting of seedlings of minimum height of 0.75 - 1.0 m, it is prescribed that the minimum stocking of 90% with minimum average height of 1.75 - 2 m at the end of 1st year maintenance.			To be done by the staff (Plantation in charge) with the help of plantation watcher	0
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.9654.59/10*12	1	23171	Ha	23171
02.04.06	Contingencies provision for maintenance of plantations				
	i) Maintenance for plantation Boards and corner stones		As per Actuals		1500
	ii) Contingencies and Miscellaneous (with 3 % of the estimate cost subject to ceiling of Rs.3000/-)		As per Actuals		1000
			Total		27646
			Unit Rate for 2021-22		27646
	Add 10% for 2022-23 over the adopted rates				30410.60
	Add 10% for 2023-24 over the adopted rates				33451.66
	Add 10% for 2024-25 over the adopted rates				36796.83
	Add 10% for 2025-26 over the adopted rates				40476.5086
	Add 10% for 2026-27 over the adopted rates				44524.15946


District Forest Officer,
Siddipet

Unit Cost for 1 Ha. 4th year maintenance Plantation under Labour Intensive Method

(FSR 2021-22 RATES ARE ADOPTED)

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.	100	131.20	100 Nos.,	131
02.04.02	Circular weeding to a radius of 0.50 m around the plant (i.e. Aug - Sept)	100	131.20	100 Nos.,	131
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	100	689.06	100 Nos.,	689
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	1024.22	Ha.	1024
02.04.05	Enumeration of row-wise survival and average growth thrice in 1st MAINTENANCE year - Number of plants planted and number surviving (to be undertaken during May and Dec.) to be ascertained and entered in Plantation Journal. With so much inputs like nutrition, augmentation of moisture status by SCTs and other cultural operations; deploying indigenous forest species and planting of seedlings of minimum height of 0.75 - 1.0 m, it is prescribed that the minimum stocking of 90% with minimum average height of 1.75 - 2 m at the end of 1st year maintenance.			To be done by the staff (Plantation in charge) with the help of plantation watcher	0
			Total		1975
			Unit Rate for 2021-22		1975
	Add 10% for 2022-23 over the adopted rates				2172.50
	Add 10% for 2023-24 over the adopted rates				2389.75
	Add 10% for 2024-25 over the adopted rates				2628.73
	Add 10% for 2025-26 over the adopted rates				2891.60
	Add 10% for 2026-27 over the adopted rates				3180.76
	Add 10% for 2027-28 over the adopted rates			4th	3498.83
	Add 10% for 2028-29 over the adopted rates			5th	3848.72
	Add 10% for 2029-30 over the adopted rates			6th	4233.59
	Add 10% for 2030-31 over the adopted rates			7th	4656.95
	Add 10% for 2031-32 over the adopted rates			8th	5122.64
	Add 10% for 2032-33 over the adopted rates			9th	5634.91
	Add 10% for 2033-34 over the adopted rates			10th	6198.40


 District Forest Officer,
 Siddipet

UNIT COST OF ADAVANCE OPERATION FOR 1 Ha. SMM PLANTATION (FSR 2021-22 RATES ADOPTED)

Sl. No	FSR Item No.	Advance works	Qty	Rate	Unit	Amount
1	02.08.01	Survey with hand-held GPS (staff to carry out) and demarcation - one manday is allowed for assistance. The surveyed sketch with exact effective area statement will be uploaded in MIS platform <i>by end of December.</i>	1	393.21	Ha	393.21
2	02.08.02	Clearing unsalable unwanted jungle growth (<i>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.</i>); Spreading the cut material all over the site; and Burning the same twice till completely burnt. <i>The unsuitable area shall be excluded from the clearing operation and the expenditure shall be incurred for effective area only. All the above operations shall be completed before December.</i>				
		(b) <i>Very Light Jungle Growth</i> (>10% and upto 20% ground area covered with Jungle growth)	1	3284.95	Ha	3284.95
3	02.08.03	Uprootal of Stumps (excluding unsuitable patches) to a minimum depth of 45 cm with heavy machinery fitted with 0.90 cum and above capacity bucket, filling the pits caused by uprootal, and levelling. For retrived encroached area, the approval of Circle Head is required and the approval should indicate clearly the density of stumps or vegetation to be removed through uprootal. <i>The uprootal work can be carried out preferably through tender process.</i>				
		(b) <i>Very Light Jungle growth</i> (>10% and up to 20% ground area covered with Jungle growth)	1	11037.51	Ha	11037.51
4	02.08.04	Collection and Removal of Uprooted Stumps of all sizes, other debris etc., to outside the plantation site.				
		(b) <i>Very Light Jungle growth</i> (>10% and up to 20% ground area covered with Jungle growth)	1	9657.68	Ha	9657.68
5	02.08.05	Tilling (PERMISSIBLE FOR CA AREA ONLY) the soil to a depth of 45 cm in the effective area (excluding unsuitable patches) with heavy duty machinery fitted with 0.90 cum and above capacity bucket and levelling - ONLY PERMISSIBLE FOR CA AREA and <i>written approval of Circle Head is needed and required budgetary provision has to find place in annual approved plan</i> and VIP planting area (<i>minimum area should be more than 1 ha area</i>). <i>The uprootal and tilling works shall be done preferably through tender process and the execution of work should be completed befor end of March.</i>				
		(b) <i>Very Light Jungle growth</i> (>10% and up to 20% ground area covered with Jungle growth)	1	15359.08	Ha	15359.08
Total						39732.43

Unit Cost per 1 Ha.	
Add 10% for 2022-23 over the adopted rates of FSR 2021-22	
Add 10% for 2023-24 over the adopted rates of FSR 2022-23	
Add 10% for 2024-25 over the adopted rates of FSR 2023-24	
Add 10% for 2025-26 over the adopted rates of FSR 2024-25	
Add 10% for 2026-27 over the adopted rates of FSR 2025-26	
Add 10% for 2027-28 over the adopted rates of FSR 2026-27	
Add 10% for 2028-29 over the adopted rates of FSR 2027-28	
Add 10% for 2029-30 over the adopted rates of FSR 2028-29	
Add 10% for 2030-31 over the adopted rates of FSR 2029-30	
Add 10% for 2031-32 over the adopted rates of FSR 2030-31	
Add 10% for 2032-33 over the adopted rates of FSR 2031-32	
Add 10% for 2033-34 over the adopted rates of FSR 2032-33	
Add 10% for 2034-35 over the adopted rates of FSR 2033-34	

39732.43
43705.67
48076.24
52883.86
58172.25
63989.48
70388.42
77427.27
85169.99
93686.99
103055.69
113361.26
124697.39
137167.12


District Forest Officer,
Siddipet

ESTIMATE FOR WORKS DURING THE YEAR 2021-22

Name of the Work : **Raising of 7.50 Ha. SMM plantation, at RF Narsampally**

Name of the Range : **Gajwel**

Name of the Beat : **Narsampally**

Name of the Section : **Mulugu**

Name of the Scheme : **CAMPA**

Sl. No.	Item of work	F.S.R. item No.	Qty.	Rate			Unit	Amount
				FSR	C & MA 20% (c) (iii)	Total (5+6)		
1	Cost of Tall Plants		1111	160		160	each	177760
2	Removing congestion of root suckers and other uprooted material hindering the effective ploughing	02.09.01	1.00	1119.37	223.87	1343.24	Ha.	1343.00
3	Deep Ploughing the effective (excluding unsuitable patches) plantation area across the slope to a depth of 30 cm with Heavy-duty Tractor of 55 HP and above with Firm Mould Board (FMB) plough. FOR TILLED AREA ONLY	02.09.03	1.00	3361.60	0.00	3361.60	Ha.	3362.00
4	Alignment & Stacking including demarcation of base line	02.09.04						
5	(c) 3X3 m espacement = 1111 planting points		1111	93.82	18.76	112.58	100 Nos	1251.00
6	i) Cost of preparation of stakes (0.45 m length) and transportation to site	02.09.05	1111	59.81	11.96	71.77	100 Nos	797.00
7	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)		1111	1260.00	0.00	1260.00	100 Nos	13999.00
8	Digging of Pits in Ploughed Areas in June - July by adopting 50% of original rate of digging of pits of ordinary soil	02.09.06						
	b) 45 cm ³ pits		1111	11.19	2.24	13.43	Pit	14919.00
	PLANTING OPERATIONS DURING RAISING YEAR							
9	(a) Transportation of Planting Stock (including loading and unloading) up to a distance of 5 km	02.09.07						
	(d) 23 X 28 cm (9"X11") bag plants		1111	268.03	0.00	268.03	100 Nos	2978.00
10	(b) Transportation of Planting Stock (including loading and unloading) more than 5 km distance and upto 25 km distance	02.09.08						
	(d) 23 X 28 cm (9"X11") bag plants		1111	9.42	0.00	9.42	100 Nos / km	2093.00
11	Internal transportation to planting points on head loads	02.09.10						
	(d) 23 X 28 cm (9"X11") bag plants		1111	173.08	34.62	207.70	100 Nos	2308.00
	PLANTING: No Eucalyptus, not even mixed with bamboo, shall be planted in CA area. Only indigenous secondary hardwood species and its associates mixed with local NTFP species shall be planted in CA areas. The minimum height of the planting stock to be planted 0.75 - 1m height (excluding the height of the bag)							
12	Fortification of seedling with insecticide and treating pits with SSP	02.09.11						

Sl. No.	Item of work	F.S.R. item No.	Qty.	Rate			Unit	Amount
				FSR	C & MA 20% (c) (iii)	Total (5+6)		
1	2	3	4	5	6	7	8	9
	(a) Application of 50 gm of SSP per pit (1 day before planting) for root growth and early establishment of plant after planting. ii) Similarly, the bag plants to be planted will be dipped inside Chloropyriphos solution (5ml Chloropyriphos in 1 lit water) either at nursery site before transport or at plantation site before planting		1111	41.23	8.25	49.48	100 Nos	550.00
	(b) Cost of SSP, Chloridine dust or Chloropyriphos		110	As per Actuals				2200.00
13	Planting in various size pits	02.09.12						
	b) Planting in 45 cm ³ Pit		1111	459.36	91.87	551.23	100 Nos	6124.00
14	Replacement of Casualties: 20% during Raising Year. (In case of Eucalyptus: 10% during raising and no casualty replacement for further maintenance). The casualty replacement should be done in 3 stages at an interval of 15 days immediately after planting during raising year.	02.09.15	222	16.48	0.00	16.48	per each	3662.68
15	Cost of DAP @ 25 gm / planting point	02.09.16	4	As per Actuals				100.00
16	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.	02.09.17	1111	41.23	8.25	49.48	100 Nos	550.00
17	Weeding and saucer formation to a radius of 0.5 mts around the plant immediately after planting (i.e) during June.	02.09.18	1111	131.20	26.24	157.44	100 Nos	1749.00
18	Circular weeding cum Deep Soil working to a radius of 0.5m and to a depth of 15 cm (to be done by pick-axe only) without damaging the plant. (during Nov - Dec)	02.09.19	1111	689.06	137.81	826.87	100 Nos	9187.00
19	Inter-ploughing (during November) the effective (excluding unsuitable patches) plantation area across the slope to a depth of 30 cm with Heavy-duty Tractor of 55 HP and above with Firm Mould Board (FMB) plough	02.09.20						
	(b) Hard gravelly soil		1.00	3502.95	0.00	3502.95	ha	3503.00
20	Pruning of lower branch initials of Timber and NTFP species by scicature upto 1/3 rd height (to be done during October)	02.09.21	1	130.43	26.09	156.52	100 Nos	2.00
21	Enumeration of row-wise survival and average growth twice in raising year - Number of plants planted and Number surviving (to be undertaken during May & Dec.) and entered in Plantation Journal. Minimum stocking of 90% and average	02.09.23	1	To be done by the staff (plantation-in-charge) with the help of Plantation Watcher				0.00
22	Contingencies provision for Raising of plantations:	02.09.24						
	i) Fixing of Plantation Boards and Corner Stones		1 No	As per Actuals				1100.00

Sl. No.	Item of work	F.S.R. item No.	Qty.	Rate			Unit	Amount
				FSR	C & MA 20% (c) (iii)	Total (5+6)		
1	2	3	4	5	6	7	8	9
	ii) Contingencies and Miscellaneous (with in 5% of the estimate cost subject to ceiling of Rs. 5,000/-)		with in 5% of the estimate cost subject to ceiling of Rs. 5,000/-					1100.00
23	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 30.00ha. (b) For unfenced area: One Casual labour is allowed for plantation more than 10.00 ha but less than 20.00 ha and one more Casual labour is permitted for multiples of 20.00 ha.	02.09.25	1.00	9654.59	0.00	9654.59	per month per watcher	11586.00
	(c) Identity Photo of Watchers with address shall be pasted in respective Plantation Journal. Every month payment to be made after satisfaction by Plantation-in-charge that fence is in proper condition and entry of grazing animals is stopped and site is not affected with fire. The guiding principle for continuation of the services of a Plantation Watcher is at least 80% survival at the end of raising year.							
	TOTAL							262223.68
	Add 10% for 2022-23 over the adopted rates							288446.05
	Add 10% for 2023-24 over the adopted rates							317290.65

**District Forest Officer,
Siddipet.**

ESTIMATE FOR WORKS DURING THE YEAR 2021-22

Name of the Work : **1st year maintenance of 1.00 Ha. plantation**

Sl. No.	Item of work	F.S.R. item No.	Qty.	FSR			Unit	Amount	
				Rate	C &MA 20% (c) (iii)	Total (5+6)			
1	2	3	4	5	6	7	8	9	
1	Cost of Tall Plants		278	160		160	each	44480	
2	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. The casualty replacement shall be completed by end of July	02.10.01	278	16.48	0.00	16.48	per plant	4581.00	
3	Weeding and saucer formation to a radius of 0.50 mts around the plant immediately after planting (i.e) during June.	02.10.02	1111	131.20	26.24	157.44	100 plants	1749.00	
4	Circular weeding cum Deep Soil working to a radius of 0.5m and to a depth of 15 cm (to be done by pick-axe only) without damaging the plant. (during Nov - Dec)	02.10.03	1111	689.06	137.81	826.87	100 plants	9187.00	
5	Inter-ploughing (during September) the effective plantation area (excluding unsuitable patches) across the slope to a depth of 30 cm with Heavy-duty Tractor of 55 HP and above with Firm Mould Board (FMB) plough. This operation shall be carried out after Mahaveera uprootal is completed. Inter-ploughing should not be used as a means of Mahaveera uprootal.	02.10.05	1.00	2553.54	0.00	2553.54	Ha.	2554.00	
6	Pruning of lower branch initials of Timber and NTFP species by sciculture upto 1/3 rd height during July-Aug.	02.10.06	1111	130.48	26.10	156.58	100 plants	1740.00	
7	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 30.00ha.	02.09.25	1.00	9654.59	0.00	9654.59	per month per watcher	11586.00	
	(b) For unfenced area: One Casual labour is allowed for plantation more than 10.00 ha but less than 20.00 ha and one more Casual labour is permitted for multiples of 20.00 ha.								
8	Enumeration of row-wise survival and average growth thrice a year - Number of plants planted and number surviving (to be undertaken during May and Dec.) and entered in Plantation Journal. Minimum stocking of 90% with minimum average height of 2.50 m at the end of raising year maintenance.	02.10.07	1.00	To be done by the staff (plantation-in-charge) with the help of plantation watcher.				0.00	
9	Contingencies provision for maintainence of plantaitons:	02.10.08							
	i) Maintenance of Plantation Boards and Corner Stones		1 No	As per actual				1100.00	
	ii) Contingencies & Miscellaneous (with in 3% of the estimate cost subject to ceiling of Rs. 3,000/-)			with in 3% of the estimate cost subject to ceiling of Rs.3000/-				1100.00	
	TOTAL							78077.00	
	Add 10% for 2022-23 over the adopted rates								85884.70
	Add 10% for 2023-24 over the adopted rates								94473.17
	Add 10% for 2024-25 over the adopted rates								103920.49


 District Forest Officer
 Siddipet

ESTIMATE FOR WORKS DURING THE YEAR 2021-22

Name of the Work : 1st year maintenance of 1.00 Ha. plantation

Sl. No.	Item of work	F.S.R. item No.	Qty.	FSR			Unit	Amount
				Rate	C &MA 20% (c) (iii)	Total (5+6)		
1	2	3	4	5	6	7	8	9
1	Circular weeding cum Deep Soil working to a radius of 0.5m and to a depth of 15 cm (to be done by pick-axe only) without damaging the plant. (during Nov - Dec)	02.10.03	1111	689.06	137.81	826.87	100 plants	9187.00
2	Inter-ploughing (during September) the effective plantation area (excluding unsuitable patches) across the slope to a depth of 30 cm with Heavy-duty Tractor of 55 HP and above with Firm Mould Board (FMB) plough. This operation shall be carried out after Mahaveera uprootal is completed. Inter-ploughing should not be used as a means of Mahaveera uprootal.	02.10.05	1.00	2553.54	0.00	2553.54	Ha.	2554.00
3	Pruning of lower branch initials of Timber and NTFP species by scicature upto 1/3 rd height during July-Aug.	02.10.06	1111	130.48	26.10	156.58	100 plants	1740.00
4	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 30.00ha. (b) For unfenced area: One Casual labour is allowed for plantation more than 10.00 ha but less than 20.00 ha and one more Casual labour is permitted for multiples of 20.00 ha.	02.09.25	1.00	9654.59	0.00	9654.59	per month per watcher	11586.00
5	Enumeration of row-wise survival and average growth thrice a year - Number of plants planted and number surviving (to be undertaken during May and Dec.) and entered in Plantation Journal. Minimum stocking of 90% with minimum average height of 2.50 m at the end of raising year maintenance.	02.10.07	1.00	To be done by the staff (plantation-in-charge) with the help of plantation watcher.				0.00
6	Contingencies provision for maintainence of plantaitons:	02.10.08						
	i) Maintenance of Plantation Boards and Corner Stones		1 No	As per actual				1100.00
	ii) Contingencies & Miscellaneous (with in 3% of the estimate cost subject to ceiling of Rs. 3,000/-)			with in 3% of the estimate cost subject to ceiling of Rs.3000/-				800.00
	TOTAL							26967.00

Add 10% for 2022-23 over the adopted rates			
Add 10% for 2023-24 over the adopted rates			
Add 10% for 2024-25 over the adopted rates			
Add 10% for 2025-26 over the adopted rates			

29663.70
32630.07
35893.08
39482.38


 District Forest Officer
 Siddipet

ESTIMATE FOR WORKS DURING THE YEAR 2021-22

Name of the Work : 3rd year maintenance of 1.00 Ha. plantation

Sl. No.	Item of work	F.S.R. item No.	Qty.	FSR			Unit	Amount
				Rate	C & MA 20% (c)	Total (5+6)		
1	2	3	4	5	6	7	8	9
1	Circular weeding cum Deep Soil working to a radius of 0.5m and to a depth of 15 cm (to be done by pick-axe only) without damaging the plant. (during Nov - Dec)	02.10.03	1111	689.06	137.81	826.87	100 plants	9187.00
2	Pruning of lower branch initials of Timber and NTFP species by scicature upto 1/3 rd height during July-Aug.	02.10.06	1111	130.48	26.10	156.58	100 plants	1740.00
3	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 30.00ha. (b) For unfenced area: One Casual labour is allowed for plantation more than 10.00 ha but less than 20.00 ha and one more Casual labour is permitted for multiples of 20.00 ha.	02.09.25	1.00	9654.59	0.00	9654.59	per month per watcher	11586.00
4	Enumeration of row-wise survival and average growth thrice a year - Number of plants planted and number surviving (to be undertaken during May and Dec.) and entered in Plantation Journal. Minimum stocking of 90% with minimum average height of 2.50 m at the end of raising	02.10.07	1.00	To be done by the staff (plantation-in-charge) with the help of plantation watcher.				0.00
5	Contingencies provision for maintenance of plantaitons:	02.10.08						
	i) Maintenance of Plantation Boards and Corner Stones		1 No	As per actual				1100.00
	ii) Contingencies & Miscellaneous (with in 3% of the estimate cost subject to ceiling of Rs. 3,000/-)			with in 3% of the estimate cost subject to ceiling of Rs.3000/-				800.00
	TOTAL							24413.00
	Add 10% for 2022-23 over the adopted rates							26854.30
	Add 10% for 2023-24 over the adopted rates							29539.73
	Add 10% for 2024-25 over the adopted rates							32493.70
	Add 10% for 2025-26 over the adopted rates							35743.07
	Add 10% for 2026-27 over the adopted rates							39317.38


 District Forest Officer
 Siddipet

ESTIMATE FOR WORKS DURING THE YEAR 2021-22

Name of the Work : 4th year maintenance of 1.00 Ha. plantation

Sl. No.	Item of work	F.S.R. item No.	Qty.	FSR			Unit	Amount
				Rate	C & MA 20% (c)	Total (5+6)		
1	2	3	4	5	6	7	8	9
1	Circular weeding cum Deep Soil working to a radius of 0.5m and to a depth of 15 cm (to be done by pick-axe only) without damaging the plant. (during Nov - Dec)	02.10.03	1111	689.06	137.81	826.87	100 plants	9187.00
2	Pruning of lower branch initials of Timber and NTFP species by scicature upto 1/3 rd height <i>during July-Aug.</i>	02.10.06	1111	130.48	26.10	156.58	100 plants	1740.00
	ii) Contingencies & Miscellaneous							800.00
	TOTAL							11727.00
	Add 10% for 2022-23 over the adopted rates							12899.70
	Add 10% for 2023-24 over the adopted rates							14189.67
	Add 10% for 2024-25 over the adopted rates							15608.64
	Add 10% for 2025-26 over the adopted rates							17169.50
	Add 10% for 2026-27 over the adopted rates							18886.45
	Add 10% for 2027-28 over the adopted rates							20775.10
	Add 10% for 2028-29 over the adopted rates							22852.61
	Add 10% for 2029-30 over the adopted rates							25137.87
	Add 10% for 2030-31 over the adopted rates							27651.65
	Add 10% for 2031-32 over the adopted rates							30416.82
	Add 10% for 2032-33 over the adopted rates							33458.50
	Add 10% for 2033-34 over the adopted rates							36804.35


 District Forest Officer
 Siddipet