

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

(FSR 2022-23 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	200.00	Plantation	200
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	3449	Ha	3449
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	6.77	Rmt	677
02.01.05	Alignment and stacking including demarcation of baseline	200	131.1	100 No's	262
02.01.04	Cost of preparation of stakes (0.45 m length) and transportation to site	400	62.8	100 No's	251
02.01.07	Digging of pits				
	(b) (ii) 60 cm cube size in hard gravelly and moram Soil (Manual)	400	59.09	Each	23636
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	400	210.00	cum	84000
			Total		112475
					112475
			Unit Rate for 2021-22		
					123722.5
	Add 10% for 2022-23 over the adopted rates	2023-24			136094.75
	Add 10% for 2023-24 over the adopted rates	2024-25			


District Forest Officer,
Siddipet

Unit Cost for 1 Ha. Raising of GAP Plantation

(FSR 2022-23 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	500	120	1 Nos	60000.00
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	400	249.78	100 Nos.,	999.00
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	400	10.36	100 Nos.,	41.00
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	400	4.66	100 Nos.,	19.00
02.02.04	Internal transportation to planting points on head loads				
	(a) 20 X 30 cm (8"X12") bag plants	400	156.00	100 Nos.,	624
	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	400	43.29	100 Nos.,	173
02.02.06	Cost of SSP, Chloridine dust (50 gm) or Chloropyriphos (Rs. 2/- per plant)	400	As per actual	Ha.	200
02.02.07	Planting in 60 cm ³ Pit	400	1070.40	100 Nos.,	4282
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	1350.00	100.00	5400
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	400	292.02	100 Nos.,	2336
02.02.10	Replacement of Casualties: 20% during Raising Year & 25% in 1 st 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)	80	28.19	Each	2255
02.02.01	Transportation of planting stock (including loading and unloading upto a distance of 5 Kms)	80	249.78	100 Nos.,	200

FSR Item No.	Description	Quantity	Rate (Rs.)	Per	Amount (Rs.)
02.02.02	Transportation of Planting Stock (including loading and unloading) more than 5 km distance and upto 25 km distance	80	10.36	100 Nos.,	8
02.02.03	Transportation of Planting Stock (including loading and unloading) more than 25 km distance and for every extra km (with prior written approval of Circle Head)	80	4.66	100 Nos.,	4
02.02.04	Internal transportation to planting points on head loads	80	156.00	100 Nos.,	125
02.02.07	(b) Planting in 60 cm ³ Pit	80	1070.40	100 Nos.,	856
02.02.11	Cost of DAP @ 25 gm / planting point	400	4.00	Each	1600
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.	400	43.29	100 Nos.,	173
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	137.76	100 Nos.,	551
02.02.14	Circular weeding to a radius of 0.50 m around the plant (i.e., Aug - Sept)	400	137.76	100 Nos.,	551
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	723.51	100 Nos.,	2894
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	1075.43	Ha.	1075
02.02.17	Pruning of Lower branches initials of Timber and NTFP species by sciculture upto 1/3 rd height during October	400	137.00	100 Nos.,	548
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	9655	Ha/10	96546
02.02.20	Contingencies provision 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		188660
		Unit Rate for 2022-23			188660
	Add 10% for 2023-24 over the adopted rates				207526.07
	Add 10% for 2024-25 over the adopted rates				228278.67


 District Forest Officer,
 Siddipet

Unit Cost for 1 Ha. 1st year maintenance of GAP Plantation

(FSR 2022-23 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			
		100	61.76	Each	6176.00
02.03.03	Weeding and saucer formation to a radius of 0.5 mts around the plant immediately after planting (i.e) during June.	400	131.20	100 Nos.,	525
02.03.04	Circular weeding to a radius of 0.50 m around the plant (i.e. Aug - Sept)	400	131.20	100 Nos.,	525
02.03.05	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	689.06	100 Nos.,	2756
02.03.06	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
02.03.07	Pruning of lower branch initials of Timber and NTFP species by sciculture upto 1/3 rd height during October	400	130.48	100 Nos.,	522
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
02.10.10	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	0	Ha	0
02.03.09	Contingent provision for maintenance of plantations				
	I) Maintenance of 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
2.02.22	Uprootal of Mahaveera (Hyptissuaveolens) weed based on CFs Proposal and on approval of PCCF	1	4025.12	Ha.	4025
			Total		17528
		Unit Rate for 2021-22			17528
	Add 10% for 2023-24 over the adopted rates				19280.80
	Add 10% for 2024-25 over the adopted rates				21208.88
	Add 10% for 2025-26 over the adopted rates				23329.77


 District Forest Officer,
 Siddipet

Unit Cost for 1 Ha. 2nd year maintenance GAP Plantation

(FSR 2022-23 RATES ARE ADOPTED)

Unit area 1.00 Ha.

FSR Item No.	Description	Quantity	Rate (Rs.)	Per	Amount (Rs.)
02.04.02	Weeding and saucer formation to a radius of 0.5 mts around the plant immediately after planting (i.e) during June.	400	131.20	100 Nos.,	525
02.04.03	Circular weeding to a radius of 0.50 m around the plant (i.e. Aug - Sept)	400	131.20	100 Nos.,	525
02.04.04	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	689.06	100 Nos.,	2756
02.04.05	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
02.04.06	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
02.04.08	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
02.04.07	Contingency provision for maintenance of plantations				
	i) Maintenance of 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
2.02.22	Uprootal of Mahaveera (Hyptissuaveolens) weed based on CFs Proposal and on approval of PCCF	1	4025.12	Ha.	4025
			Total		32001
			Unit Rate for 2021-22		32001
	Add 10% for 2023-24 over the adopted rates				35201.10
	Add 10% for 2024-25 over the adopted rates				38721.21
	Add 10% for 2025-26 over the adopted rates				42593.33
	Add 10% for 2026-27 over the adopted rates				46852.6641


 District Forest Officer,
 Siddipet

Unit Cost for 1 Ha. 3rd year maintenance GAP Plantation

(FSR 2022-23 RATES ARE ADOPTED)

Unit area 1.00 Ha,

FSR Item No.	Description	Quantity	Rate (Rs.)	Per	Amount (Rs.)
02.04.02	Weeding and saucer formation to a radius of 0.5 mts around the plant immediately after planting (i.e) during June.	400	131.20	100 Nos.,	525
02.04.03	Circular weeding to a radius of 0.50 m around the plant (i.e. Aug - Sept)	400	131.20	100 Nos.,	525
02.04.04	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	689.06	100 Nos.,	2756
02.04.05	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
02.04.06	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
02.04.08	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
02.04.07	Contingencies provision for maintenance of plantations				
	i) Maintenance of 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
2.02.22	Uprootal of Mahaveera (Hyptissuaveolens) weed based on CFs Proposal and on approval of PCCF	1	4025.12	Ha.	4025
			Total		30501
			Unit Rate for 2021-22		30501
	Add 10% for 2023-24 over the adopted rates				33551.10
	Add 10% for 2024-25 over the adopted rates				36906.21
	Add 10% for 2025-26 over the adopted rates				40596.83
	Add 10% for 2026-27 over the adopted rates				44656.5141
	Add 10% for 2027-28 over the adopted rates				49122.16551


 District Forest Officer,
 Siddipet

Unit Cost for 1 Ha. 4th year maintenance GAP Plantation

(FSR 2022-23 RATES ARE ADOPTED)

Unit area 1.00 Ha.

FSR Item No.	Description	Quantity	Rate (Rs.)	Per	Amount (Rs.)
02.04.02	Weeding and saucer formation to a radius of 0.5 mts around the plant immediately after planting (i.e) during June.	400	131.20	100 Nos.,	0
02.04.03	Circular weeding to a radius of 0.50 m around the plant (i.e. Aug - Sept)	400	131.20	100 Nos.,	525
02.04.04	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	689.06	100 Nos.,	2756
02.04.05	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
02.04.06	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.				0
		To be done by the staff (Plantation in charge) with the help of plantation watcher			
2.02.22	Uprootal of Mahaveera (Hyptissuaveolens) weed based on CFs Proposal and on approval of PCCF	1	4025.12	Ha.	4025
			Total		8330
			Unit Rate for 2021-22		8330
	Add 10% for 2023-24 over the adopted rates				9163.13
	Add 10% for 2024-25 over the adopted rates				10079.45
	Add 10% for 2025-26 over the adopted rates				11087.39
	Add 10% for 2026-27 over the adopted rates				12196.13
	Add 10% for 2027-28 over the adopted rates			4th	13415.74
	Add 10% for 2028-29 over the adopted rates			5th	14757.32
	Add 10% for 2029-30 over the adopted rates			6th	16233.05
	Add 10% for 2030-31 over the adopted rates			7th	17856.35
	Add 10% for 2031-32 over the adopted rates			8th	19641.99
	Add 10% for 2032-33 over the adopted rates			9th	21606.19
	Add 10% for 2033-34 over the adopted rates			10th	23766.80


District Forest Officer,
Siddipet

**BOUNDARY PILLARS REQUIREMENT UNDER DIVERSION OF 1.6967 HA OF
FOREST LAND IN SIDDIPET FOREST DIVISION FOR laying of drinking
water pipe line by Chief Engineer - III MB Hyd.**

Sl. No.	Items	Number	Cost of Rs.	Total in Rs.
1	RCC Pillar of 4' height with 1.2 m base on either sides of road, at an interval of 200m, entry & exit points and change in allignment. (16 at NFL and 36 No.s at RF across the proposed pipeline)	52	12000	624000
2	Small Boundary pillars at 20 mtrs interval	824	1000	824000
	Total			1448000


**District Forest Officer,
Siddipet.**

UNIT COST OF ADVANCE OPERATION FOR 1 Ha. SMM PLANTATION (FSR 2022-23 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	412.87	Ha	412.87
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.</i> All the above operations shall be completed before December.				
		(b) Very Light Jungle Growth (>10% and upto 20% ground area covered with Jungle growth)	1	3449.2	Ha	3449.20
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) Very Light Jungle growth (>10% and up to 20% ground area covered with Jungle growth)	1	12141.26	Ha	12141.26
4	02.08.04	Collection and Removal of Uprooted Stumps of all sizes, other debris etc., to outside the plantation site.				
		(b) Very Light Jungle growth (>10% and up to 20% ground area covered with Jungle growth)	1	10140.56	Ha	10140.56
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 written approval of Circle Head is needed and required budgetary provision has to find place in annual approved plan) and VIP planting area (minimum area should be more than 1 ha area). <i>The uprootal and tilling works shall be done preferably through tender process and the execution of work should be completed before end of March.</i>				
		(b) Very Light Jungle growth (>10% and up to 20% ground area covered with Jungle growth)	1	16894.99	Ha	16894.99
		Total				43038.88

Unit Cost per 1 Ha.	
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	
Add 10% for 2034-35 over the adopted rates of FSR 2034-35	

43038.88
47342.77
52077.04
57284.75
63013.22
69314.55
76246.00
83870.60
92257.66
101483.43
111631.77
122794.95


District Forest Officer,
Siddipet

ESTIMATE FOR WORKS DURING THE YEAR 2022-23

Name of the Work : **Raising of 1.00 Ha. SMM plantation**

Sl. No.	Item of work	F.S.R. item No.	Qty.	Rate			Unit	Amount
				FSR	C & M/A 20% (c) (iii)	Total (5+6)		
1	2	3	4	5	6	7	8	9
1	Cost of Tall Plants		1300	120		120	each	156000
2	Removing congestion of root suckers and other uprooted material hindering the effective ploughing	02.09.01	1.00	1175.34	0.00	1175.34	Ha.	1175.00
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	3697.00	0.00	3697.00	Ha.	3697.00
4	Alignment & Stacking including demarcation of base line	02.09.04						
5	(c) 3X2 m espacement = 1111 planting points		1111	98.51	0.00	98.51	100 Nos	1094.00
6	i) Cost of preparation of stakes (0.45 m length) and transportation to site	02.09.05	1111	62.8	0.00	62.80	100 Nos	698.00
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	1323.00	0.00	1323.00	100 Nos	14699.00
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	9.95	0.00	9.95	Pit	11054.00
	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	294.83	0.00	294.83	100 Nos	3276.00
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	10.36	0.00	10.36	100 Nos / km	2302.00
11	Internal transportation to planting points on head loads	02.09.10						
	(d) 23 X 28 cm (9"X11") bag plants		1111	181.73	0.00	181.73	100 Nos	2019.00

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
	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						
	(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	43.29	0.00	43.29	100 Nos	481.00
	(b) Cost of SSP, Chloridine dust or Chloropyriphos		110	As per Actuals				2500.00
13	Planting in various size pits	02.09.12						
	b) Planting in 45 cm ³ Pit		1111	482.33	0.00	482.33	100 Nos	5359.00
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	278	16.48	0.00	16.48	per each	4578.35
15	Cost of DAP @ 25 gm / planting point	02.09.16	6	As per Actuals				2500.00
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	43.29	0.00	43.29	100 Nos	481.00
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	137.76	0.00	137.76	100 Nos	1531.00
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	723.51	0.00	723.51	100 Nos	8038.00

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
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	3853.25	0.00	3853.25	ha	3853.00
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	136.95	0.00	136.95	100 Nos	1.00
21	Enumeration of row-wise survival and average growth twicw 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 minimum height of 1.5 m	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 plantaitons:	02.09.24						
	i) Fixing of Plantation Boards and Corner Stones		1 No	As per Actuals				1600.00
	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/-				3000.00
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.	02.09.25	1.00	10137.32	0.00	10137.32	per month per watch er	23170.29
	(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.							
	(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							253106.63
	Add 10% for 2023-24 over the adopted rates							278417.30
	Add 10% for 2024-25 over the adopted rates							306259.03

ESTIMATE FOR WORKS DURING THE YEAR 2022-23

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		111	160		160	each	17760
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	137.76	0.00	137.76	100 plants	1531.00
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	723.51	0.00	723.51	100 plants	8038.00
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	2808.89	0.00	2808.89	Ha.	2809.00
6	Pruning of lower branch initials of Timber and NTFP species by scicature upto 1/3 rd height during July-Aug.	02.10.06	1111	137.00	0.00	137.00	100 plants	1522.00
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	10137.32	0.00	10137.32	per month per watcher	34755.43
	(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							73196.43
	Add 10% for 2023-24 over the adopted rates							80516
	Add 10% for 2024-25 over the adopted rates							88568
	Add 10% for 2025-26 over the adopted rates							97424

*District Forest Officer
Siddipet*

ESTIMATE FOR WORKS DURING THE YEAR 2022-23

Name of the Work : 2nd year maintenance of 1.00 Ha. SMM 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	723.51	0.00	723.51	100 plants	8038.00
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	2415.41	0.00	2415.41	Ha.	2415.00
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	137.00	0.00	137.00	100 plants	1522.00
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	10137.32	0.00	10137.32	per month per watcher	34755.43
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							48630.43
	Add 10% for 2023-24 over the adopted rates							53493
	Add 10% for 2024-25 over the adopted rates							58843
	Add 10% for 2025-26 over the adopted rates							64727
	Add 10% for 2026-27 over the adopted rates							71200

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	723.51	0.00	723.51	100 plants	8038.00
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	137.00	0.00	137.00	100 plants	1522.00
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	10137.32	0.00	10137.32	per month per watcher	34755.43
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 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							46215.43
	Add 10% for 2023-24 over the adopted rates							50836.97
	Add 10% for 2024-25 over the adopted rates							55921
	Add 10% for 2025-26 over the adopted rates							61513
	Add 10% for 2026-27 over the adopted rates							67664
	Add 10% for 2027-28 over the adopted rates							74430

*District Forest Officer
Siddipet*

ESTIMATE FOR WORKS DURING THE YEAR 2022-23

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	723.51	0.00	723.51	100 plants	8038.00
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	137.00	0.00	137.00	100 plants	1522.00
	ii) Contingencies & Miscellaneous							800.00
	TOTAL							10360.00
	Add 10% for 2023-24 over the adopted rates							11396
	Add 10% for 2024-25 over the adopted rates							12536
	Add 10% for 2025-26 over the adopted rates							13789
	Add 10% for 2026-27 over the adopted rates							15168
	Add 10% for 2027-28 over the adopted rates							16685
	Add 10% for 2028-29 over the adopted rates							18353
	Add 10% for 2029-30 over the adopted rates							20189
	Add 10% for 2030-31 over the adopted rates							22208
	Add 10% for 2031-32 over the adopted rates							24428
	Add 10% for 2032-33 over the adopted rates							26871
	Add 10% for 2033-34 over the adopted rates							29558
	Add 10% for 2034-35 over the adopted rates							32514

[Signature]
District Forest Officer
Siddipet

**BOUNDARY PILLARS REQUIREMENT UNDER DIVERSION OF 1.6967 HA OF
FOREST LAND IN SIDDIPET FOREST DIVISION FOR laying of drinking
water pipe line by Chief Engineer - III MB Hyd.**

Sl. No.	Items	Number	Cost of Rs.	Total in Rs.
1	RCC Pillar of 4' height with 1.2 m base on either sides of road, at an interval of 200m, entry & exit points and change in allignment. (16 at NFL and 36 No.s at RF across the proposed pipeline)	52	12000	624000
2	Small Boundary pillars at 20 mtrs interval	824	1000	824000
	Total			1448000


District Forest Officer,
Siddipet.