

UNIT COST OF ADAVANCE OPERATION FOR 1 Ha. SMM PLANTATION(303-
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) and VIP planting area (minimum area should be more than 1 ha area).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	39732.43
Add 10% for 2023-24 over the adopted rates of FSR 2022-23	43705.67
Add 10% for 2024-25 over the adopted rates of FSR 2023-24	48076.24
Add 10% for 2025-26 over the adopted rates of FSR 2024-25	52883.86
Add 10% for 2026-27 over the adopted rates of FSR 2025-26	58172.25
Add 10% for 2027-28 over the adopted rates of FSR 2026-27	63989.48
Add 10% for 2028-29 over the adopted rates of FSR 2027-28	70388.42
Add 10% for 2029-30 over the adopted rates of FSR 2028-29	77427.27
Add 10% for 2030-31 over the adopted rates of FSR 2029-30	85169.99
Add 10% for 2031-32 over the adopted rates of FSR 2030-31	93686.99
Add 10% for 2032-33 over the adopted rates of FSR 2031-32	103055.69
Add 10% for 2033-34 over the adopted rates of FSR 2032-33	113361.26
Add 10% for 2034-35 over the adopted rates of FSR 2033-34	124697.39
	137167.12


District Forest Officer,
Siddipet

ESTIMATE FOR WORKS DURING THE YEAR 2021-22

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

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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
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 harwood 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
	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	<p>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.</p> <p>(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.</p>	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


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ESTIMATE FOR WORKS DURING THE YEAR 2021-22

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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 scicature 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. (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
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


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ESTIMATE FOR WORKS DURING THE YEAR 2021-22

Name of the Work : 2nd year maintenance of 1.00 Ha. SMM plantation

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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							29663.70
	Add 10% for 2023-24 over the adopted rates							32630.07
	Add 10% for 2024-25 over the adopted rates							35893.08
	Add 10% for 2025-26 over the adopted rates							39482.38


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ESTIMATE FOR WORKS DURING THE YEAR 2021-22

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

313

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.	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.							
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							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


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ESTIMATE FOR WORKS DURING THE YEAR 2021-22

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

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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


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