

## UNIT COST DIGGING OF TRENCH WORK AROUND THE C.A. PLANTATION AREA

Sl. No.	FSR Item No.	Nature of work	Quantity	Rate	Unit	Amount	Remarks
1	05.08.12	Digging of Cattle proof trench (CPT) around the 8.40 Ha. with size of 2.00 width, Bottom width 1.50Mt and 2.00 mtr. Depth (total 1500 Rmt.)	5250	50	Per Cmt.	262500	
		$(2 + 1.5)/2 \times 1 = 3.50 \text{ Cmt. } (3.5 \times 1500 = 5250 \text{ cmt})$					
2		G.S.T (5%)				13125	
			<b>TOTAL:</b>			<b>275625</b>	

or 276000

276000 Year 2018-19

**303600 (10% Escalation charges added)for 2019-20**

**333960 (10% Escalation charges added)for 2020-21**

333960

Bonnie Gubosi  
Forest Divisional Officer  
Echoda

**ESTIMATE FOR FORMATION OF PERCOLATION TANKS IN C.A. PLANTATION AREAS**

Sl. No.		Nature of work	Quantity	Rate	Unit	Amount	Remarks
1		Construction of Percolation tanks					
		a) Medium PTs	1	200000	P. No	200000	
		c) Mini PTs	2	100000	P. No	200000	
				<b>TOTAL:</b>		<b>400000</b>	

**400000**

**440000 As per SSR 2019-20 (10% Escalation charges added)**

**484000 As per SSR 2020-21 (10% Escalation charges added)**

**484000**

*B. Echoda*  
Forest Divisional Officer  
Echoda

**UNIT COST ERRECTION CHAIN LINK MESH FENCE AROUND THE C.A. PLANTATION AREA**

Sl. No.	FSR Item No.	Nature of work	Quantity	Rate	Unit	Amount	Remarks
1		Errection chainlink mesh fence around the CA area	1500	2000	Per Rmt.	3000000	
2		Errection of Iron / Design Cement poles with Iron gate				500000	
			<b>TOTAL:</b>			<b>3500000</b>	

3500000 2018-19

**3850000 (10% Escalation charges added)for 2019-20**

**4235000 (10% Escalation charges added)for 2020-21**

4235000

*Bewahe  
2019*  
Forest Divisional Officer  
Echoda

**Unit cost for Stabilization of Trench mound ( Bund planting ) along RF boundary -As per FSR 2018-19**

Area in Ha/Km. : 1.00 KM

Sl. No.	FSR Item No.	Nature of work	Quantity		Rate Unit per			Amount
1	2	3	4	5	6	7	8	9
1		STABILIZATION OF RF BLOCK BOUNDARY CONTINUOUS PERIPHERAL TRENCH MOUND: Planting on peripheral trench mound and adjacent strips are taken up with the objective of increasing the effectiveness of trench as a barrier for entry of grazing animals and spread of fire. Also by planting on the mound, the loose soil gets stabilized and increases the life-span of trench. The rationale of planting the edible wild fruit species is to enhance the food base of the monkeys and other wild animals. The species selected for planting may be Pithecolobium dulce, Terminalia bellirica, Careya arborea, Bridellia retusa, Phyllanthus emblica, Semecarpus anardium, Buchanania lanza, Tamarindus indica, Ficus benghalensis, Ficus religiosa, Limonia acidissima, Syzygium cumini etc. All these plantings will be one time operation without further years' maintenance. The process includes following steps:						
	03.02.01	1) Planting of :- (A) 2 rows of Gachakaya (Caesalpinia bonduc) seedlings in 2 staggered rows in 2x1 m spacing (row to row 1 m and within the row 2 m spacing) on the outer slope of the trench mound; (B) 1 row of wild edible fruit species on the ridge line of the trench mound at 2 m apart; (C) bamboo (Dendrocalamus strictus) seedlings / rhizome(2-3 yr old) at 4 m apart in the middle of the inner slope of the mound; and (D) broadcasting of pretreated (overnight soaking in boiled water) Babul (Acacia nilotica) seeds inside trench @ 500gms per km by staff. The total planting points thus works out to be 1750 seedlings per km on trench mound.						
		(A) 2 rows of Gachakaya (Caesalpinia bonduc) seedlings in 2 staggered rows in 2x1 m spacing (row to row 1 m and within the row 2 m spacing) on the outer slope of the trench mound.						
		(a) Allignment & Stacking (in 2 staggered rows)	2000	Nos	72.88	100	Nos	1458
		(b) Cost of preparation of stakes (0.45 m length) and transportation to site	2000	Nos	51.67	100	Nos	1033
		(c) Digging of 45 cm <sup>3</sup> pits (50% of original rate) to be done during June	2000	Nos	9.65	1	No	19300
		(e) Transportation of seedlings (including loading and unloading) & Internal transport –						
		(i) From nursery to plantation site – upto 5 Kms lead - 12.5x22.5cm (5"x9") bag plants	2000	Nos	47.82	100	Nos	956
		(ii) From nursery to plantation site - beyond 5 Km lead - for every extra km beyond 5 km upto 25 km ( 20 Kms X 1.97 )	2000	Nos	39.40	100	Nos	788
	03.02.02	Internal transportation to planting points on Head loads	2000	Nos	53.84	100	Nos	1077
	03.02.03	Planting with 2.00 m apart in two row (1000 Nos. per km) and formation of saucer on lower slope to hold water.	2000	Nos	127.49	100	Nos	2550
2		(B) 1 row of wild edible fruit species on the ridge line of the trench mound at 2 m apart ( Bag Planting)						
	02.01.04	(b) Cost of preparation of stakes (0.45 m length) and transportation to site	500	Nos	51.65	100	Nos	258
	02.01.05	(c) Allignment & Stacking	500	Nos	107.86	100	Nos	539
		(d) Digging of 45 cm <sup>3</sup> pits (50% of original rate) to be done during June	500	Nos	9.65	1	No	4825
		(e) Transportation of seedlings (including loading and unloading) & Internal transport –						

	02.02.01	(i) From nursery to plantation site – upto 5 Kms lead - (b) 15 X 30 cm (6"X12") bag plants	500	Nos	106.47	100	Nos	532
	02.02.02	(ii) From nursery to plantation site - beyond 5 Km lead - for every extra km beyond 5 km upto 25 km ( 20 x 3.72 )	500	Nos	74.40	100	Nos	372
	02.02.04	Internal transportation to planting points on Head loads (b) 15 X 30 cm (6"X12") bag plants	500	Nos	83.27	100	Nos	416
	03.02.03	Planting with 2 m apart in one row (500Nos. per km)	500	Nos	127.49	100	Nos	637
3		<b>(C) bamboo (Dendrocalamus strictus) seedlings / rhizome(2-3 yr old) at 4 m apart in the middle of the inner slope of the mound ( Bag planting)</b>						
	02.01.04	(b) Cost of preparation of stakes (0.45 m length) and transportation to site	250	Nos	51.65	100	Nos	129
	02.01.05	(a) Allignment & Stacking	250	Nos	107.86	100	Nos	270
		(d) Digging of 45 cm <sup>3</sup> pits (50% of original rate) to be done during June	250	Nos	9.65	1	No	2413
		(e) Transportation of seedlings (including loading and unloading) & Internal transport –						
	02.02.01	(i) From nursery to plantation site – upto 5 Kms lead - (b) 15 X 30 cm (6"X12") bag plants	250	Nos	106.47	100	Nos	266
	02.02.02	(ii) From nursery to plantation site - beyond 5 Km lead - for every extra km beyond 5 km upto 25 km ( 20 x 3.72 )	250	Nos	74.40	100	Nos	186
	02.02.04	Internal transportation to planting points on Head loads (b) 15 X 30 cm (6"X12") bag plants	250	Nos	83.27	100	Nos	208
	03.02.03	Planting with 4 m apart in one row ( 250 Nos. per km)	250	Nos	127.49	100	Nos	319
4		<b>(D) broadcasting of pretreated (overnight soaking in boiled water) Babul (Acacia nilotica) seeds inside trench @ 500gms per km by staff</b>						0
		<b>Total</b>						38532

38600.00

2018-19

38600.00

42460.00 (10% Escalation charges added)for 2019-20

46706.00 (10% Escalation charges added) for 2020-21

*Brennan  
Stu P 2019*  
Forest Divisional Officer,  
Echoda

**Requirement of seedlings for CA scheme for Double degraded forest land in Booth Range of Echoda Divison**

Sl. No	Range	Double degraded forest land	Area identified in Ha	Area to be afforested through SMM 3m x 3m	Stabilization of CPT through planting.	Total requirement of seedlings
1	2	3	4	5	6	7
1		Compt No. 8	8.400	8.400	1.50 Kms	
			<b>8.400</b>	<b>8.400</b>	<b>1.50 Kms</b>	

**Requirement of seedlings for the above area for CA scheme for Double**

Sl. No	Range	degraded forest land	Area proposed in Ha	SMM 3m x 3m (@ 1350 per Ha )	@ 3300 per Km.	
1		Raising year including casualties	8.40	11340	4950	
				<b>11340</b>	<b>4950</b>	
		Add 10 % (Towards damages)		<b>1134</b>	<b>495</b>	
		Total for Raising		12474	5445	
			Or	12500	5500	18000
				(@ 280 Per ha )		
1		Replacemnt for 1st year	8.400	2352		
		Add 10 % (Towards damages)		<b>235</b>		
				<b>2587</b>		
		Total for maintanance	Or	2600	0	2600

  
 Forest Divisional Officer  
 Echoda

**UNIT COST FOR ADVANCE OPERATIONS FOR CA SCHEME FOR 2019-20 UNDER LI METHOD-  
(3m X 3m espacement)**

Sl. No.	FSR item No	Nature of work	Qty	Rate	Unit		Amount
1	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	339.66	1	Plantation	340
2	02.01.02	Clearing unsalable unwanted jungle growth (leaving all the tree species of good form particularly the hardwood tree species like Teak, Nallamaddi, Yegisa, Narepa, Somi, Jitregi, Billudu, Chenangi etc. and NTFP species like Ippa, Morri, Tani, Karaka, Vepa, Maredu, Tapasi, Tuniki, Chinta, Usuri, Nallajeedi etc.); Spreading the cut material all over the site; and Burning the same twice till completely burnt. All the above operations should be completed before December.					
		(a) Sparse Jungle Growth (< 10% ground area covered with Jungle growth)	0.40	1887.86	1	Ha	755
		(b) Very Light Jungle Growth (>10% and upto 20% ground area covered with Jungle growth)	0.40	2837.66	1	Ha	1135
		(c) Light Jungle Growth (> 20% and upto 30% ground area covered with Jungle growth) with prior written approval of DFO based on the field inspection of DFO.	0.20	5686.75	1	Ha	1137
3	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. This operation is applicable for plantations other than Semi- Mechanical Plantation.	150.00	5.55	1	Rmt	833
4	02.15.10	Cost of supporting stakes of 2.50 m length	1,111	1500	100	Nos	16665
5	02.01.05	Allignment & Stacking including demarcation of baseline	1,111	81.03	100	Nos	900
6		Digging of Pits (1 x 1 x 1 Cum) by machine	1,111	75.00	1	Pit	83325
7	02.01.08	Digging of Staggered Contour Trenches (SCTs) for impounding rain water (Size: 3m Length, 0.45 m top-width, 0.30 m bottom-width and 0.45 m depth; earthwork volume per trench: 0.506 cum - Max. of 100 no. per ha. ) ( 1x 100 x 0.506 =50.60 Cum					
		Hard soils like gravel and morum	50.60	297.80	1	Cum	15069
8		Cost of imported soil	0.50	231.14	1	Cum	116
		<b>TOTAL</b>					<b>120275</b>
					OR		<b>120300</b>

**UNIT RATE :**

120300.00 As per FSR 2018-19  
132330.00 As per FSR 2019-20 (10% Escalation charges added)

132330.00 Per Ha.

  
Forest Divisional Officer,  
Echoda

**UNIT COST FOR RAISING OF C.A. PLANTATION UNDER LABOUR INTENSIVE METHOD FOR 2020-21 (3m X 3m espacement)**

Sl No	Item No.	Schedule of operations with Specification	Unit	Qty	Rate (in Rs)	Per	Amount
1	2	3	4	5	6	7	8
<b>PLANTATION</b>							
<b>II RAISING OF BLOCK PLANTATIONS</b>							
<b>02.01. LABOUR INTENSIVE METHOD (LI METHOD)</b>							
<b>02.02. PLANTING OPERATIONS DURING RAISING YEAR</b>							
1		Cost of plantingstock of plantable size of 3.00 m and above Height including plants required for casualty replacements ( Species like Marri, Ravi, Medu, Juvvi and Bamboo etc.,)	No.	1350	200	1	270000
2	<b>02.02.01</b>	<b>Transportation of Planting Stock</b> (including loading and unloading)					
		<i>From nursery to plantation site - upto 5 Km lead</i>					
		20 X 30 cm (8"X12") bag plants	No.	1111	190.84	100	2120
		<i>From nursery to plantation site - Beyond 5 Km lead</i>					
3	<b>02.02.02</b>	<i>i) For every extra km beyond 5 km upto 20 km</i>					
		20 X 30 cm (8"X12") bag plants (15 x 7.43 =111.45)	No.	1111	111.45	100	1238
4	<b>02.02.04</b>	<b>Internal transportation</b> to planting points on head loads					
		20 X 30 cm (8"X12") bag plants	No.	1111	128.79	100	1431
		<b>PLANTING:</b> 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)					
5	<b>02.02.05</b>	<b>Application of 50 gm of SSP per pit</b> (1 day before planting) for root growth and early establishment of plant after planting. Similarly, the bag plants to be planted are to be dipped inside Chloropyriphos solution (5 ml of Chloropyriphos in 1 lit water)	No.	1111	35.62	100	396
6	<b>02.02.06</b>	<b>Cost of SSP, Chloridine dust (50 gm) or Chloropyriphos (50 g x 1111 / 1000 /50 =1.11 Bags)</b>	Bag	1.11	500	1	555
		<b>Planting</b>					
7	<b>02.15.11</b>	Refilling the pits with dug-up soil and planting	No.	1111	1456	100	16176
8	<b>02.02.09</b>	Watering (one time) immediately after planting if the planting takes place on a non-rainy day and if there are no rains after planting for 1-2 days with prior written permission of Circle Head and under intimation to Head Office. Also the date of watering is to be recorded in plantation Journal (Refer PCCF Office Rc. No. 17309/2000/G1, Dt. 16.08.2005 - Circular No. 6B/2005/G1)	No.	1111	240.24	100	2669
		<b>Replacement of Casualties</b>					
9	<b>02.02.10</b>	Replacement of Casualties: 20% during Raising Year . The casualty replacement should be done in 3 stages at an intervals of 15 days immediately after planting during raising year. 50% of unit rate of original pitting during raising year. Planting, trans					
		a) Pitting (50% of Original Rate $75 \times 50\% = 37.50$ )	Each	222	37.5	1	8325
		b) Transportation of Seedlings- up to 5Kms	No.	222	190.84	100	424
		- 5 to 20Kms	No.	222	111.45	100	247
		c) Internal transporation	No.	222	128.79	100	286
		d) Planting	No.	222	1456	100	3232
		<b>Application of Fertilizers</b>					
10	<b>02.02.11</b>	<b>Cost of DAP @ 25 gm / planting point ( 1111 * 25 /1000/ 50 = 0.555)</b>	Bag	0.555	1400	1	777
11	<b>02.02.12</b>	<b>Application</b> 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	No.	1111	35.62	100	396
		<b>WEEDING &amp; SOIL WORKING</b>					
12	<b>02.02.13</b>	<b>1<sup>st</sup></b> circular weeding to a radius of 0.50 m around the plant after 30 days of planting (i.e. July - Aug)	No.	1111	113.34	100	1259
13	<b>02.02.14</b>	<b>2nd</b> circular weeding to a radius of 0.50 m around the plant after 90 days of planting (i.e. Sep - Oct)	No.	1111	113.34	100	1259

SI No	Item No.	Schedule of operations with Specification	Unit	Qty	Rate (in Rs)	Per	Amount	
1	2	3	4	5	6	7	8	
14	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		No.	1111	595.23	100	6613
15	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)						
		High rainfall zone > 800 mm (for Warangal, Khammam & Adilabad Circle.)	Ha	1	1327.25	1	1327	
16	02.02.17	Pruning of lower branch initials of Timber and NTFP species by scicature upto 1/3 rd height during October	No.	1111	103.79	100	1153	
17	02.02.19	Enumeration of row-wise survival and average growth twice in the raising year - Number of plants planted and Number surviving (to be undertaken during May and Dec) 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.	To be done by the staff (plantation-in-charge) with the help of Plantation Watcher				0	
18	02.02.20	Cost of Protection: One Watcher is allowed for 10-30 ha. plantation; One more Watcher for more than 30 ha; and if the area is less than 10 ha, prior approval of Conservator of Forests is required. 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. ( 8340/ 10 Ha = 834 per Ha) (July to March)	Mont h	9	834	1	7506	
19		Preparation and fixing of plantation board of standered size 6'x3' with iron Angulars, guage 6 mm (Erected on 65 mm x 65 mm x 6 mm for length of 3.00 m) including construction of CC Boddu		1	A/A		500	
						Total	327889	

or 307700.00

307700.00 As per FSR 2018-19

338470.00 As per FSR 2019-20 (10% Escalation charges added)

372317.00 As per FSR 2020-21 (10% Escalation charges added)

372317 Per Ha.

*B. S. Echoda*  
21/4/2020  
Forest Divisional Officer,  
Echoda

**UNIT COST FOR 1st YEAR MAINTENANCE OF C.A. PLANTATION FOR 2021-22 UNDER LABOUR INTENSIVE METHOD -  
(3m X 3m espacement)**

SI No	Item No.	Schedule of operations with Specification	Unit	Qty	Rate (in Rs)	Per	Amount
1	2	3	4	5	6	7	8
	02.10.	<b>1<sup>ST</sup> YEAR MAINTAINANCE</b>					
1		Cost of plantingstock of plantable size of 3.00 m and above Height including plants required for casualty replacements ( Species like Marri, Ravi, Medi, Juvvi)	No	278	200	1	55600
2	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. ( 1666 & 25% = 416 Nos)					
		a) Pitting ( Original Rate 250 )	No	278	75	1	20850
		b) Transportation of Seedlings- up to 5Kms	No	278	190.84	100	531
		- 5 to 20 Kms (15 Km x 3.38)	No	278	111.45	100	310
		c) Internal transporation	No	278	128.79	100	358
		d) Planting	No	278	1456	100	4048
		<b>WEEDING &amp; SOIL WORKING (To be carried out after replacement of casualties are over)</b>					
3	02.03.02	1 <sup>st</sup> Circular weeding to a radius of 0.50 m around the plant during July - Aug	100	1111	113.34	100	1259
4	02.03.03	2 <sup>nd</sup> Circular weeding to a radius of 0.50 m around the plant during Sept - Oct	100	1111	113.34	100	1259
5	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)					
		For hard gravelly soil	100	1111	595.23	100	6613
6	02.03.05	<b>Cutting of coppice growth</b> 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 ( <i>to be undertaken during July -</i>					
		<i>b) High rainfall zone &gt; 800 mm (for Warangal, Khammam &amp; Adilabad Circle)</i>	Ha	1	1327.25	1	1327
7	02.03.06	<b>Pruning of lower branch initials</b> of Timber and NTFP species by scicature upto 1/3 rd height <i>during October.</i>	100 Nos	1111	112.69	100	1252
8	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				
9	02.03.08	Cost of Protection: One Watcher is allowed for 10-30 ha. plantation; One more Watcher for more than 30 ha; and if the area is less than 10 ha, prior approval of Conservator of Forests is required. 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 during 1st year maintenance period. ( 8340/ 10 Ha =750 per Ha)	Month	12	834	1	10008
					<b>Total</b>		<b>103415</b>

or 99300.00 per Ha

**UNIT RATE :**

99300.00 As per FSR 2018-19  
 109230.00 As per FSR 2019-20 (10% Escalation charges added)  
 120153.00 As per FSR 2020-21 (10% Escalation charges added)  
 132168.30 As per FSR 2021-22 (10% Escalation charges added)

OR 132168 Per Ha.

*B. S. Echoda*  
 Forest Divisional Officer,  
 Echoda

**UNIT COST FOR 2nd YEAR MAINTENANCE OF C.A. PLANTATION FOR 2022-23 UNDER LABOUR INTENSIVE METHOD  
(3m X 3m espacement)**

SI No	Item No.	Schedule of operations with Specification	Unit	Qty	Rate (in Rs)	Per	Amount
1	2	3	4	5	6	7	8
	<b>02.04.</b>	<b>SECOND YEAR MAINTAINANCE</b>					
		<b>WEEDING &amp; SOIL WORKING</b>					
1	<b>02.04.01</b>	1 <sup>st</sup> circular weeding to a radius of 0.50 m around the plant during July - Aug.	No	1111	113.34	100	1259
2	<b>02.04.02</b>	2 <sup>nd</sup> circular weeding to a radius of 0.50 m around the plant during Sept. - Oct.	No	1111	113.34	100	1259
3	<b>02.04.03</b>	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 during Nov. - Dec.					
		For hard gravelly soil	No	1111	595.23	100	6613
4	02.04.04	<b>Cutting of coppice growth</b> 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)					
		(b) High rainfall zone > 800 mm (for Warangal, Khammam & Adilabad Circle)	Ha	1	1327.25	1	1327
5	<b>02.04.05</b>	Enumeration of row-wise survival and average growth thrice in 2 <sup>nd</sup> Maintenance year - Number of plants planted and Number surviving (to be undertaken during June, Oct. and Jan.) 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 average minimum height of 2.5 - 3 m at the end of 1st year maintenance.			To be done by the staff (plantation-in-charge) with the help of Plantation Watcher		
6	<b>02.04.06</b>	<b>Cost of Protection:</b> One Watcher is allowed for 10-30 ha. plantation; One more Watcher for more than 30 ha; and if the area is less than 10 ha, prior approval of Conservator of Forests is required. Identity Photo of Watchers with address shall be pasted in respective Plantation Journal. Every month payment will be made after satisfaction by Plantation-in-charge that fence is in proper condition and incidence of grazing and fire is not there. The guiding principle of charging the Plantation Watcher in 2nd year is at least 80% stocking during 2nd year of maintenance period. (8340/10 = 834)	Month	12	834	1	10008
						<b>Total</b>	<b>20466</b>
						or	<b>20500.00</b>
							per Ha

**UNIT RATE :**

**20500.00** As per FSR 2018-19  
**22550.00** As per FSR 2019-20 (10% Escalation charges added)  
**24805.00** As per FSR 2020-21 (10% Escalation charges added)  
**27285.50** As per FSR 2021-22 (10% Escalation charges added)  
**30014.05** As per FSR 2022-23 (10% Escalation charges added)

OR    **30014**    Per Ha.

  
 Forest Divisional Officer,  
 Echoda

**UNIT COST FOR 3rd YEAR MAINTENANCE OF C.A. PLANTATION FOR 2023-24 UNDER LABOUR INTENSIVE METHOD**  
**-(3m X 3m espacement)**

SI No	Item No.	Schedule of operations with Specification	Unit	Qty	Rate (in Rs)	Per	Amount
1	2	3	4	5	6	7	8
	<b>02.04.</b>	<b>THIRD YEAR MAINTAINANCE</b>					
		<b>WEEDING &amp; SOIL WORKING</b>					
1	<b>02.04.01</b>	1 <sup>st</sup> circular weeding to a radius of 0.50 m around the plant during July - Aug.	No	1111	113.34	100	1259
2	<b>02.04.02</b>	2 <sup>nd</sup> circular weeding to a radius of 0.50 m around the plant during Sept. - Oct.	No	1111	113.34	100	1259
3	<b>02.04.03</b>	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 during Nov. - Dec. For hard gravelly soil	No	1111	595.23	100	6613
4	<b>02.04.04</b>	<b>Cutting of coppice growth</b> 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)  (b) <i>High rainfall zone &gt; 800 mm (for Warangal, Khammam &amp; Adilabad Circle)</i>	Ha	1	1327.25	1	1327
5	<b>02.04.05</b>	Enumeration of row-wise survival and average growth thrice in 2 <sup>nd</sup> Maintainance year - Number of plants planted and Number surviving ( <i>to be undertaken during June, Oct. and Jan.</i> ) 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 average minimum height of 2.5 - 3 m at the end of 1st year maintainance.	To be done by the staff (plantation-in-charge) with the help of Plantation Watcher				
6	<b>02.04.06</b>	<b>Cost of Protection:</b> One Watcher is allowed for 10-30 ha. plantation; One more Watcher for more than 30 ha; <i>and if the area is less than 10 ha, prior approval of Conservator of Forests is required. Identity Photo of Watchers with address shall be pasted in respective Plantation Journal. Every month payment will be made after satisfaction by Plantation-in-charge that fence is in proper condition and incidence of grazing and fire is not there. The guiding principle of charging the Plantation Watcher in 2nd year is at least 80% stocking during 2nd year of maintainance period. (8340/10 = 834)</i>	Month	12	834	1	10008
						<b>Total</b>	<b>20466</b>
						or	<b>20500.00</b> per Ha

**UNIT RATE :**

**20500.00** As per FSR 2018-19  
**22550.00** As per FSR 2019-20 (10% Escalation charges added)  
**24805.00** As per FSR 2020-21 (10% Escalation charges added)  
**27285.50** As per FSR 2021-22 (10% Escalation charges added)  
**30014.05** As per FSR 2022-23 (10% Escalation charges added)  
**33015.46** As per FSR 2023-24 (10% Escalation charges added)

OR **33015** Per Ha.

  
 Forest Divisional Officer,  
 Echoda

**UNIT COST FOR 4th YEAR MAINTENANCE OF C.A. PLANTATION FOR 2024-25 UNDER LABOUR INTENSIVE METHOD  
(3m X 3m espacement)**

Sl No	Item No.	Schedule of operations with Specification	Unit	Qty	Rate (in Rs)	Per	Amount
1	2	3	4	5	6	7	8
	<b>02.04.</b>	<b>FOURTH YEAR MAINTAINANCE</b>					
		<b>WEEDING &amp; SOIL WORKING</b>					
1	<b>02.04.01</b>	1 <sup>st</sup> circular weeding to a radius of 0.50 m around the plant during July - Aug.	No	1111	113.34	100	1259
2	<b>02.04.02</b>	2 <sup>nd</sup> circular weeding to a radius of 0.50 m around the plant during Sept. - Oct.	No	1111	113.34	100	1259
3	<b>02.04.03</b>	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 during Nov. - Dec.					
		For hard gravelly soil	No	1111	595.23	100	6613
4	02.04.04	<b>Cutting of coppice growth</b> 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)					
		(b) <i>High rainfall zone &gt; 800 mm (for Warangal, Khammam &amp; Adilabad Circle)</i>	Ha	1	1327.25	1	1327
5	<b>02.04.05</b>	Enumeration of row-wise survival and average growth thrice in 2 <sup>nd</sup> Maintenance year - Number of plants planted and Number surviving ( <i>to be undertaken during June, Oct. and Jan.</i> ) 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 average minimum height of 2.5 - 3 m at the end of 1st year maintenance.					
6	<b>02.04.06</b>	<b>Cost of Protection:</b> One Watcher is allowed for 10-30 ha. plantation; One more Watcher for more than 30 ha; and if the area is less than 10 ha, prior approval of Conservator of Forests is required. Identity Photo of Watchers with address shall be pasted in respective Plantation Journal. <b>Every month payment will be made after satisfaction by Plantation-in-charge that fence is in proper condition and incidence of grazing and fire is not there.</b> The guiding principle of charging the Plantation Watcher in 2nd year is at least 80% stocking during 2nd year of maintenance period. (8340/10 = 834)	Month	12	834	1	10008
						<b>Total</b>	<b>20466</b>
						or	20500.00 per Ha

**UNIT RATE :**

**20500.00** As per FSR 2018-19  
**22550.00** As per FSR 2019-20 (10% Escalation charges added)  
**24805.00** As per FSR 2020-21 (10% Escalation charges added)  
**27285.50** As per FSR 2021-22 (10% Escalation charges added)  
**30014.05** As per FSR 2022-23 (10% Escalation charges added)  
**33015.46** As per FSR 2023-24 (10% Escalation charges added)  
**36317.01** As per FSR 2024-25 (10% Escalation charges added)

OR **36317** Per Ha.

*Parvathy*  
8/4/2019  
Forest Divisional Officer,  
Echoda

**UNIT COST FOR 5th YEAR MAINTENANCE OF C.A. PLANTATION FOR 2025-26 UNDER LABOUR INTENSIVE METHOD  
(3m X 3m espacement)**

Sl No	Item No.	Schedule of operations with Specification	Unit	Qty	Rate (in Rs)	Per	Amount
1	2	3	4	5	6	7	8
	<b>02.04. FIFTH YEAR MAINTAINANCE</b>						
		<b>WEEDING &amp; SOIL WORKING</b>					
1	<b>02.04.01</b>	1 <sup>st</sup> circular weeding to a radius of 0.50 m around the plant during July - Aug.	No	1111	113.34	100	1259
2	<b>02.04.02</b>	2 <sup>nd</sup> circular weeding to a radius of 0.50 m around the plant during Sept. - Oct.	No	1111	113.34	100	1259
3	<b>02.04.03</b>	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 during Nov. - Dec.					
		For hard gravelly soil	No	1111	595.23	100	6613
4	02.04.04	<b>Cutting of coppice growth</b> 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)					
		(b) High rainfall zone > 800 mm (for Warangal, Khammam & Adilabad Circle)	Ha	1	1327.25	1	1327
5	<b>02.04.05</b>	Enumeration of row-wise survival and average growth thrice in 2 <sup>nd</sup> Maintenance year - Number of plants planted and Number surviving (to be undertaken during June, Oct. and Jan. ) 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 average minimum height of 2.5 - 3 m at the end of 1st year maintenance.	To be done by the staff (plantation-in-charge) with the help of Plantation Watcher				
6	<b>02.04.06</b>	Cost of Protection: One Watcher is allowed for 10-30 ha. plantation; One more Watcher for more than 30 ha; and if the area is less than 10 ha, prior approval of Conservator of Forests is required. Identity Photo of Watchers with address shall be pasted in respective Plantation Journal. Every month payment will be made after satisfaction by Plantation-in-charge that fence is in proper condition and incidence of grazing and fire is not there. The guiding principle of charging the Plantation Watcher in 2nd year is at least 80% stocking during 2nd year of maintenance period. (8340/10 = 834)	Month	12	834	1	10008
						<b>Total</b>	<b>20466</b>
						or	20500.00 per Ha

**UNIT RATE :**

**20500.00** As per FSR 2018-19  
**22550.00** As per FSR 2019-20 (10% Escalation charges added)  
**24805.00** As per FSR 2020-21 (10% Escalation charges added)  
**27285.50** As per FSR 2021-22 (10% Escalation charges added)  
**30014.05** As per FSR 2022-23 (10% Escalation charges added)  
**33015.46** As per FSR 2023-24 (10% Escalation charges added)  
**36317.01** As per FSR 2024-25 (10% Escalation charges added)  
**39948.71** As per FSR 2025-26 (10% Escalation charges added)

OR    39949    Per Ha.

  
 Forest Divisional Officer,  
 Echoda

**UNIT COST FOR 6th YEAR MAINTENANCE OF C.A. PLANTATION FOR 2026-27 UNDER LABOUR INTENSIVE METHOD  
(3m X 3m espacement)**

Sl No	Item No.	Schedule of operations with Specification	Unit	Qty	Rate (in Rs)	Per	Amount
1	2	3	4	5	6	7	8
	<b>02.04.</b>	<b>SIXTH YEAR MAINTAINANCE</b>					
		<b>WEEDING &amp; SOIL WORKING</b>					
1	<b>02.04.01</b>	1 <sup>st</sup> circular weeding to a radius of 0.50 m around the plant during July - Aug.	No	1111	113.34	100	1259
2	<b>02.04.02</b>	2 <sup>nd</sup> circular weeding to a radius of 0.50 m around the plant during Sept. - Oct.	No	1111	113.34	100	1259
3	<b>02.04.03</b>	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 during Nov. - Dec.					
		For hard gravelly soil	No	1111	595.23	100	6613
4	02.04.04	<b>Cutting of coppice growth</b> 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)					
		(b) High rainfall zone > 800 mm (for Warangal, Khammam & Adilabad Circle)	Ha	1	1327.25	1	1327
5	<b>02.04.05</b>	Enumeration of row-wise survival and average growth thrice in 2 <sup>nd</sup> Maintenance year - Number of plants planted and Number surviving (to be undertaken during June, Oct. and Jan.) 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 average minimum height of 2.5 - 3 m at the end of 1st year maintenance.	To be done by the staff (plantation-in-charge) with the help of Plantation Watcher				
6	<b>02.04.06</b>	<b>Cost of Protection:</b> One Watcher is allowed for 10-30 ha. plantation; One more Watcher for more than 30 ha; and if the area is less than 10 ha, prior approval of Conservator of Forests is required. Identity Photo of Watchers with address shall be pasted in respective Plantation Journal. <b>Every month payment will be made after satisfaction by Plantation-in-charge that fence is in proper condition and incidence of grazing and fire is not there. The guiding principle of charging the Plantation Watcher in 2nd year is at least 80% stocking during 2nd year of maintenance period. (8340/10 = 834)</b>	Month	12	834	1	10008
						<b>Total</b>	<b>20466</b>
						or	20500.00 per Ha

UNIT RATE :

- 20500.00 As per FSR 2018-19
- 22550.00 As per FSR 2019-20 (10% Escalation charges added)
- 24805.00 As per FSR 2020-21 (10% Escalation charges added)
- 27285.50 As per FSR 2021-22 (10% Escalation charges added)
- 30014.05 As per FSR 2022-23 (10% Escalation charges added)
- 33015.46 As per FSR 2023-24 (10% Escalation charges added)
- 36317.01 As per FSR 2024-25 (10% Escalation charges added)
- 39948.71 As per FSR 2025-26 (10% Escalation charges added)
- 43943.58 As per FSR 2026-27 (10% Escalation charges added)

OR 43944 Per Ha.

*Benuja 8/4/2019*  
Forest Divisional Officer,  
Echoda

**UNIT COST FOR 7th YEAR MAINTENANCE OF C.A. PLANTATION FOR 2027-28 UNDER LABOUR INTENSIVE METHOD  
(3m X 3m espacement)**

SI No	Item No.	Schedule of operations with Specification	Unit	Qty	Rate (in Rs)	Per	Amount
1	2	3	4	5	6	7	8
	<b>02.04.</b>	<b>THIRD YEAR MAINTAINANCE</b>					
		<b>WEEDING &amp; SOIL WORKING</b>					
1	<b>02.04.01</b>	1 <sup>st</sup> circular weeding to a radius of 0.50 m around the plant during July - Aug.	No	1111	113.34	100	1259
2	<b>02.04.02</b>	2 <sup>nd</sup> circular weeding to a radius of 0.50 m around the plant during Sept. - Oct.	No	1111	113.34	100	1259
3	<b>02.04.03</b>	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 during Nov. - Dec.					
		For hard gravelly soil	No	1111	595.23	100	6613
4	<b>02.04.04</b>	<b>Cutting of coppice growth</b> 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)					
		(b) High rainfall zone > 800 mm (for Warangal, Khammam & Adilabad Circle)	Ha	1	1327.25	1	1327
5	<b>02.04.05</b>	Enumeration of row-wise survival and average growth thrice in 2 <sup>nd</sup> Maintenance year - Number of plants planted and Number surviving (to be undertaken during June, Oct. and Jan.) 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 average minimum height of 2.5 - 3 m at the end of 1st year maintenance.	To be done by the staff (plantation-in-charge) with the help of Plantation Watcher				
6	<b>02.04.06</b>	Cost of Protection: One Watcher is allowed for 10-30 ha. plantation; One more Watcher for more than 30 ha; and if the area is less than 10 ha, prior approval of Conservator of Forests is required. Identity Photo of Watchers with address shall be pasted in respective Plantation Journal. Every month payment will be made after satisfaction by Plantation-in-charge that fence is in proper condition and incidence of grazing and fire is not there. The guiding principle of charging the Plantation Watcher in 2nd year is at least 80% stocking during 2nd year of maintenance period. (8340/10 = 834)	Month	12	834	1	10008
						<b>Total</b>	<b>20466</b>
						or	20500.00 per Ha

**UNIT RATE :**

20500.00	As per FSR 2018-19
22550.00	As per FSR 2019-20 (10% Escalation charges added)
24805.00	As per FSR 2020-21 (10% Escalation charges added)
27285.50	As per FSR 2021-22 (10% Escalation charges added)
30014.05	As per FSR 2022-23 (10% Escalation charges added)
33015.46	As per FSR 2023-24 (10% Escalation charges added)
36317.01	As per FSR 2024-25 (10% Escalation charges added)
39948.71	As per FSR 2025-26 (10% Escalation charges added)
43943.58	As per FSR 2026-27 (10% Escalation charges added)
48337.94	As per FSR 2027-28 (10% Escalation charges added)

OR 48338 Per Ha.

*Echoda*  
STH/3.019  
Forest Divisional Officer,  
Echoda