

office of HP state compensatory Afforestation Fund Management & Planning Authority  
(HP State CAMPA), Aranya-Bhawan, Talland, Shimla- 171001.

Cost Modal for 1 Ha Block Plantation with 500 Tall Plants Per Ha.  
4 strand B/ wire with RCC Fencing Posts and maintenance for 10 years  
( based on a 5 Ha compact site of plantation)

Sr. No.	Particulars Of Works	Unit	Quantity	Rate per unit at the wage rate of 200/-	Rate per unit at the wage rate of 300/-	Norm at the wage rate of 300/- for non- Tribal areas
<b>A</b>	<b>SURVEY, DEMACATION &amp; FENCING:-</b>					
1	Survey, demarcation of Plantation Area i/c marketing of section	Ha	1	134.66	201.99	201.99
2	Cost of RCC Poles and painting	No	60	300.00	450.00	27000
3	Cost of carriage of RCC Poles upto 2 Kms uphill/downhill	No	60	44.67	67.01	8041.2
4	Preparation / Digging of holes of 20X30x50 cm size for fixing of fence	No	60	12.08	18.12	1087.2
5	Fixing of RCC fence posts in concrete i/c strutting	No	60	9.55	14.33	859.5
6	Carriage of B/Wire from store to nearest road head near plantation site in motor transport (average carriage 10 kms)	Qntl	0.9	LS	750.00	750
7	Carriage of B/Wire manually over a distance of 2 kms uphill/downhill from road side to plantation site	Per Km Per qntl	0.9	98.20	147.30	265.14
8	Stretching and fixing of b/wire in four stands	Rmt	720	6.40	9.60	6912
9	Interlacing of thorny bushes along the fence	Rmt	180	5.45	8.18	1471.5
10	Cost of procurement of B/wire	Qntl	0.9	6930.00	6300.00	5670
<b>Total -A / Survey, Demarcation &amp; Fencing:</b>					<b>0.00</b>	<b>52258.53</b>
	<b>Or Say</b>					<b>52300</b>
<b>B</b>	<b>PLANTING:-</b>					
1	Clearing the site of weeds / Bush Cutting in Strips of 1 to 2 mtr wide	Ha	1	1590.36	2385.54	2385.54
2	Digging of pits 90X90X90 cms	No	500	83.17	124.76	62377.5
3	Filling of pits 90X90X90 cms	No	500	7.08	10.62	5310
4	Carriage of poly plants from nursery to nearest road head near plantation site in motor transport (average distance 10 kms)	No	500	LS	11250.00	11250
5	Carriage of poly plants in poly bags ( 18" X 24" ) from road side to plantation site over a distance of 2 Kms uphill / downhill manually	No	500	30.00	45.00	22500

6	Addition of fertilizer / FYM to planting pits	No	500	LS	7500.00	7500
7	Planting of tall plants in pits i/c ramming shall be carried out with a 40% mix of fruit trees	No	500	8.72	13.08	6540
8	Construction of Inspection Path 60cm wide	Rmt	100	14.67	22.01	2200.5
9	Cost of tall plants raised in Departmental Nurseries (3 year old in 18" X24" bags)	No	500	75.00	112.50	56250
10	De-weeding and hoeing twice a year	No	500	10.91	16.37	16370
11	Watering the plants during months of stress	No	500	LS	6000.00	6000
12	Plantation Display Board [depicting the name of the Compensatory Plantation, Total Area of Plantation, Total number of Plants, Species planted and the name of all the Proposals with corresponding number of plants planted against each, for which the land was diverted]	No	1	LS	1500.00	1500
<b>Total - B/ Planting:</b>						200183.5
	<b>Or Say</b>					200000
	<b>Total Fencing and Planting (A+B)</b>					252300
<b>C</b>	<b>MAINTENANCE</b>					
	<b>1st year maintenance (10% beating up of failures)</b>					
1	Re - Digging of pits 90X90X90 cms	No	50	49.89	74.84	3741.75
2	Filling of pits 90X90X90 cms	No	50	7.09	10.64	531.75
3	Carriage of poly plants from nursery to nearest road head near plantation site in motor transport (average distance 10 kms)	No	50	LS	1500.00	1500
4	Carriage of poly plants in poly bags ( 18" X 24" ) from road side to plantation site over a distance of 2 Kms uphill / downhill manually	No	50	30.00	45.00	2250
5	Planting of tall plants in pits i/c ramming shall be carried out with a 40% mix of fruit trees	No	50	8.72	13.08	654
6	Cost of tall plants raised in Departmental Nurseries (3 year old in 18" X24" bags)	No	50	75.00	112.50	5625
7	Repair of fencing	Rmt	72	2.40	3.60	259.2
	<b>Total 1st year maintenance</b>					14561.70
	<b>Or Say</b>					14600
	<b>2nd year maintenance (5% beating up of failures)</b>					
1	Re - Digging of pits 90X90X90 cms	No	25	49.89	74.84	1870.875
2	Filling of pits 90X90X90 cms	No	25	7.08	10.62	265.5
3	Carriage of poly plants from nursery to nearest road head near plantation site in motor transport (average distance 10 kms)	No	25	LS	525.00	525

4	Carriage of poly plants in poly bags ( 18" X 24" ) from road side to plantation site over a distance of 2 Kms uphill / downhill manually	No	25	30.00	45.00	1125
5	Planting of tall plants in pits i/c ramming shall be carried out with a 40% mix of fruit trees	No	25	8.72	13.08	327
6	Cost of tall plants raised in Departmental Nurseries (3 year old in 18" X24" bags)	No	25	75.00	112.50	2812.5
7	Repair of fencing	Rmt	72	2.40	3.60	259.2
	<b>Total 2nd year maintenance</b>					<b>7185.075</b>
	<b>Or Say</b>					<b>7200</b>
	<b>3rd year maintenance (5% beating up of failures)</b>					
1	Re - Digging of pits 90X90X90 cms	No	25	49.89	74.84	1870.875
2	Filling of pits 90X90X90 cms	No	25	7.08	10.62	265.5
3	Carriage of poly plants from nursery to nearest road head near plantation site in motor transport (average distance 10 kms)	No	25	LS	525.00	525
4	Carriage of poly plants in poly bags ( 18" X 24" ) from road side to plantation site over a distance of 2 Kms uphill / downhill manually	No	25	30.00	45.00	1125
5	Planting of tall plants in pits i/c ramming shall be carried out with a 40% mix of fruit trees	No	25	8.72	13.08	327
6	Cost of tall plants raised in Departmental Nurseries (3 year old in 18" X24" bags)	No	25	75.00	112.50	2812.5
7	Repair of fencing	Rmt	72	2.40	3.60	259.2
	<b>Total 3rd year maintenance</b>					<b>7185.075</b>
	<b>Or Say</b>					<b>7200</b>
	<b>4th year maintenance (3% beating up of failures)</b>					
1	Re - Digging of pits 90X90X90 cms	No	15	49.89	74.84	1122.525
2	Filling of pits 90X90X90 cms	No	15	7.08	10.62	159.3
3	Carriage of poly plants from nursery to nearest road head near plantation site in motor transport (average distance 10 kms)	No	15	L/S	315.00	315
4	Carriage of poly plants in poly bags ( 18" X 24" ) from road side to plantation site over a distance of 2 Kms uphill / downhill manually	No	15	30.00	45.00	675
5	Planting of tall plants in pits i/c ramming shall be carried out with a 40% mix of fruit trees	No	15	8.72	13.08	196.2
6	Cost of tall plants raised in Departmental Nurseries (3 year old in 18" X24" bags)	No	15	75.00	112.50	1687.5
7	Repair of fencing	Rmt	72	2.40	3.60	259.2

	<b>Total 4th year maintenance</b>								<b>4414.725</b>
	<b>5th year maintenance (3% beating up of failures)</b>	<b>Or Say</b>							<b>4400</b>
1	Re - Digging of pits 90X90X90 cms	No		15	49.89	74.84	1122.525		
2	Filling of pits 90X90X90 cms	No		15	7.08	10.62	159.3		
3	Carriage of poly plants from nursery to nearest road head near plantation site in motor transport (average distance 10 kms)	No		15	L/S	315.00	315		
4	Carriage of poly plants in poly bags ( 18" X 24" ) from road side to plantation site over a distance of 2 Kms uphill / downhill manually	No		15	30.00	45.00	675		
5	Planting of tall plants in pits i/c ramming shall be carried out with a 40% mix of fruit trees	No		15	8.72	13.08	196.2		
6	Cost of tall plants raised in Departmental Nurseries (3 year old in 18" X24" bags)	No		15	75.00	112.50	1687.5		
7	Repair of fencing	Rmt		72	2.40	3.60	259.2		
	<b>Total 5th year maintenance</b>						<b>4414.73</b>		
	<b>6th year maintenance (2% beating up of failures)</b>	<b>Or Say</b>							<b>4400</b>
1	Re - Digging of pits 90X90X90 cms	No		10	49.89	74.84	748.35		
2	Filling of pits 90X90X90 cms	No		10	7.08	10.62	106.2		
3	Carriage of poly plants from nursery to nearest road head near plantation site in motor transport (average distance 10 kms)	No		10	L/S	210.00	210		
4	Carriage of poly plants in poly bags ( 18" X 24" ) from road side to plantation site over a distance of 2 Kms uphill / downhill manually	No		10	30.00	45.00	450		
5	Planting of tall plants in pits i/c ramming shall be carried out with a 40% mix of fruit trees	No		10	8.72	13.08	130.8		
6	Cost of tall plants raised in Departmental Nurseries (3 year old in 18" X24" bags)	No		10	75.00	112.50	1125		
7	Repair of fencing	Rmt		72	2.40	3.60	259.2		
	<b>Total 6th year maintenance</b>						<b>3029.55</b>		
	<b>7th year maintenance (2% beating up of failures)</b>	<b>Or Say</b>							<b>3000</b>
1	Re - Digging of pits 90X90X90 cms	No		10	49.89	74.84	748.35		
2	Filling of pits 90X90X90 cms	No		10	7.08	10.62	106.2		
3	Carriage of poly plants from nursery to nearest road head near plantation site in motor transport (average distance 10 kms)	No		10	L/S	210.00	210		

4	Carriage of poly plants in poly bags ( 18" X 24" ) from road side to plantation site over a distance of 2 Kms uphill / downhill manually	No	10	30.00	45.00	450
5	Planting of tall plants in pits i/c ramming shall be carried out with a 40% mix of fruit trees	No	10	8.72	13.08	130.8
6	Cost of tall plants raised in Departmental Nurseries (3 year old in 18" X24" bags)	No	10	75.00	112.50	1125
7	Repair of fencing	Rmt	72	2.40	3.60	259.2
	<b>Total 7th year maintenance</b>					<b>3029.55</b>
	Or Say					<b>3000</b>
	8th to 10th year maintenance					
	<b>Total (C) Maintenance cost for 10 years</b>			<b>3</b>	<b>3000.00</b>	<b>9000.00</b>
	<b>D</b>					<b>52800.00</b>
	<b>TOTAL NEW + MAINTENANCE D = (A+B+C)</b>					<b>305100.00</b>

Total expenditure required for raising of CA over an area of 2.32 hac. in DPF C-27 Kallari of Naina Devi Ji range for block plantation with 500 tall plants with 4 strand B/wire with RCC Fencing including 10 years maintenance in lieu of area proposed for Diversion of 0.561098 hectare of forest land for the construction of Sewerage Treatment Plant 5.00 MLD for Zone No. 1 in Up Muhal Diara within the jurisdiction of Bilaspur Forest Division, Distt. Bilaspur, HP.

1	Forest land proposed for diversion	0.561098
2	Total trees involved in the proposal	116
3	Forest land identified for raising of CA	2.32
4	No. of plants to be planted i.e. 10 times of trees involved in proposal	1160

Sr. No.	Particular of cost	Rate per ha.	Area in ha.	Total amount
1	Planting & Fencing	252300	2.32	585336
2	1st year maintenance cost	14600	2.32	33872
3	2nd year maintenance cost	7200	2.32	16704
4	3rd year maintenance cost	7200	2.32	16704
5	4th year maintenance cost	4400	2.32	10208
6	5th year maintenance cost	4400	2.32	10208

6	6th year maintenance cost	3000	2.32	6960
7	7th year maintenance cost	3000	2.32	6960
8	8th year maintenance cost	3000	2.32	6960
9	9th year maintenance cost	3000	2.32	6960
10	10th year maintenance cost	3000	2.32	6960
	<b>Total (New + Maintenance)</b>	<b>305100</b>		<b>707832</b>
13	<b>Contingency</b>			
	Contingency 5% of all above			35392
	<b>TOTAL Contingency (E)</b>			<b>35392</b>
	<b>Total Plantation + Contingency</b>			<b>743224</b>
14	<b>Departmental Charges</b>			
	17.5% of all above			130064
	<b>Total Departmental Charges</b>			<b>130064</b>
	<b>Total {New+Maint+Contingency+Departmental charges}</b>			<b>8732288</b>
15	<b>GST @ 18% on the cost of F/Posts &amp; B/Wire</b>			13643
	<b>Grand Total of CA including Taxes</b>			<b>886931</b>

Approved

Chief Conservator of Forest,  
Bilaspur Forest Circle,  
Bilaspur (H.P.)

Divisional Forest Officer  
Forest Division, Bilaspur  
Distt. Bilaspur (H.P.)