

Plantation Model For Standard Plantation under Compensatory Afforestation
Plants Per Hectare : 1000 Nos.

Wage Rate : Rs. 328

Sr. No.	Name of Work	Unit	Qty.	Unit Cost (in Rs.)	Amount
Nursery					
	Nursery cost of raising plants				
Soil Work					
1	Site / Jungle Clearance (25%)	1100	1100	20.00	22000.00
2	Alignment & Dagbaling				
3	Earth works in Digging of Pits 1000 x 0.5 m x 0.5 m x 0.4 m	Ha.	0.5	5367.22	2683.61
5	Kana Stubbing 25%	Ha.	1	984.00	984.00
Plantation Work					
1	Refilling of Pits 1000x0.5mx0.5mx0.3	1 M3	100	101.38	10138.00
2	Loading & Unloading of Plants (1000+10% Wastage=1100)	Ha.	0.25	26836.00	6709.00
3	Carriage of Plants (1000+10% wastage =1100 avg. distance upto 10 km.)	100 cum	75	2747.00	2060.25
4	i) Carriage from site to site	100 No.	1100	550.00	6050.00
	ii) Planting of Plants (1000 No. including 10% replacement)	100 No.	1100	196.80	2164.80
5	Spot Irrigation (1000 Plants)	100 No.	1000	131.20	1312.00
6	Application of Insecticide (2 Times)	100 No.	1000	984.00	9840.00
7	Application of Fertilizers (2 Times)	100 No.	1000	205.00	2050.00
8	Weeding & Hoeing 3 Times	100 No.	1000	41.00	410.00
9	Hand Watering (12 Times)	100 No.	1000	41.00	410.00
10	Replanting of Plants 10%	100 No.	3000	357.52	10725.60
11	Rejungle Clearance (2 Times)	100 No.	12000	205.00	24600.00
12	Covering (25% plants) of plants	100 No.	100	579.11	579.11
13	Uncovering of plants	Per Ha.	1	2378.00	2378.00
14	Restubbing of Kana (1 Time)	100 No.	250	295.20	738.00
15	Laying out & fixing of Barbed Wire	100 No.	250	32.80	82.00
16	Watch & Ward for every 10 Ha. (7 Months)		0.25	26836.30	6709.08
17	Material	L/s			7872.00
	i) Insecticides / Fertilizers	Man Year	1 Man 7 Month	8528.00	5969.60
	ii) POL				
	iii) Barbed Wire	L/s			5000.00
		L/s			5000.00
		L/s			5000.00
	Sub Total				186465.05
Maintenance 1 Year					
1	Cost of raising plants for 30% replacement	1 No.	300	20.00	6000.00
2	Reopening of Pits 300 x 0.50 x 0.50 x 0.30	1 m3	21.6	59.63	1341.68
3	Refilling of pits with earth in other soils 300 x 0.50 x 0.50 x 0.30	1 m3	21.6	27.47	618.08
4	Loading & Unloading of Plants	1 No.	300	2.46	738.00
5	Carriage of Plants (300+10% Wastage = 330 avg. distance upto 10 Km.)	100 No.	1	196.20	196.20
6	Spreading of plants pit to pit	100 No.	165	131.20	216.48
7	Re-Planting to plants	100 No.	165	329.08	542.98
8	Spot Irrigation	100 No.	165	205.00	338.25
9	Weeding & Hoeing (Three)	100 No.	3000	357.52	10725.60
10	Application of Insecticide (2 Times)	100 No.	1000	41.00	410.00
11	Application of Fertilizers (2 Times)	100 No.	1000	41.00	410.00
12	Hand Watering (6 Times)	100 No.	6000	357.52	21451.20
13	Rejungle Clearance (2 Times)	Per Ha.	1	2378.00	2378.00
14	Restubbing of Kana	Per Ha.	0.25	26836.00	6709.00

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15	Watch & Ward for every 10 Ha. (10 Months)	Man Year	1/10 Man Yr.	8528.00	5969.60
16	Repair of Barbed Wire	L/s			
17	POL & Machinery	L/s			5000.00
18	Material and Supply	L/s			5000.00
	Sub Total				5000.00
	2nd Year Maintenance				73045.06
1	Cost of raising plants for 15% replacement				
2	Reopening of Pits 150 x 0.60 x 0.60 x 0.40	1 No.	150	20.00	3000.00
3	Refilling of pits with earth in other soils 150x 0.60 x 0.60 x 0.40	1 m3	21.6	59.63	644.00
4	Loading & Unloading of Plants	1 m3	21.6	27.47	296.68
5	Carriage of Plants Wastage = 75 avg. distance upto 10 Km.)	1 No.	75	2.46	184.50
6	Spreading of plants pit to pit	500 No.	1	196.20	196.20
7	Re-Planting to plants	100 No.	75	131.20	98.40
8	Spot Irrigation	100 No.	75	229.09	171.82
9	Weeding & Hoeing (Twice)	100 No.	75	205.00	153.75
10	Hand Watering (5 Times)	100 No.	2000	357.52	7150.40
11	Rejungle Clearance (2 Times)	100 No.	5000	205.00	10250.00
12	Pruning to Plants	Per Ha.	1	2378.00	2378.00
13	Watch & Ward for every 10 Ha.	100 No.	100	387.61	387.61
14	Repair of Barbed Wire	Man Year	1/10 Man Yr.	8528.00	5969.60
15	POL & Machinery	L/s			5000.00
18	Material and Supply	L/s			5000.00
	Sub Total				45880.96
	3rd Year Maintenance				
1	Cost of raising plants for 10% replacement				
2	Reopening of Pits 100 x 0.50 x 0.50 x 0.40	1 No.	100	20.00	2000.00
3	Refilling of pits with earth in other soils 100 x 0.50 x 0.50 x 0.30	1 m3	10	5963.00	429.34
4	Loading & Unloading of Plants	1 m3	7.5	27.47	197.78
5	Carriage of Plants 50 avg. distance upto 10 Km.)	1 No.	100	2.46	246.00
6	Spreading of plants pit to pit	100 No.	100	1.00	100.00
7	Re-Planting to plants	100 No.	100	131.20	131.20
8	Spot Irrigation	100 No.	100	229.09	229.09
9	Weeding & Hoeing (thrice)	100 No.	100	205.00	205.00
10	Hand Watering (8 Times)	100 No.	2000	357.52	7150.40
11	Pruning to Plants 20%	100 No.	5000	205.00	10250.00
12	Watch & Ward for every 10 Ha.	100 No.	200	387.61	775.22
13	Watch & Ward for every 10 Ha.	Man Year	1/10 Man Yr.	8528.00	5969.60
14	Repair of Barbed Wire	L/s			5000.00
15	POL & Machinery	L/s			5000.00
18	Material and Supply	L/s			5000.00
	Sub Total				42683.63
	4th Year Maintenance				
1	Cost of raising plants for 5% replacement	1 No.	50	20.00	1000.00
2	Reopening of Pits 50 x 0.50 x 0.50 x 0.40	1 m3	5	5963.00	429.34
3	Refilling of pits with earth in other soils 100 x 0.50 x 0.50 x 0.30	1 m3	3.75	27.47	197.78
4	Loading & Unloading of Plants	1 No.	50	2.46	123.00
5	Carriage of Plants 50 avg. distance upto 10 Km.)	100 No.	50	1.00	50.00
6	Spreading of plants pit to pit	100 No.	50	131.20	65.60
7	Re-Planting to plants	100 No.	50	229.09	114.54
8	Spot Irrigation	100 No.	50	205.00	102.50
9	Weeding & Hoeing (thrice)	100 No.	2000	357.52	7150.40
10	Hand Watering (8 Times)	100 No.	4000	205.00	8200.00


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11	Pruning to Plants 30%				
12	Watch & Ward for every 10 Ha.	100 No.	300	387.61	1162.83
13	Repair of Barbed Wire	Man Year	1/10 Man Yr.	8528.00	5969.60
14	POL & Machinery	L/s			
15	Material and Supply	L/s			5000.00
		L/s			5000.00
	Sub Total				5000.00
	5th Year Maintenance				39565.59
1	Watch & Ward for every 10 Ha. (10 Motnts)	Man Year	1/10 Man Yr.	8528.00	5969.60
	Sub Total				5969.60
	6th Year Maintenance				5969.60
1	Watch & Ward for every 10 Ha. (10 Motnts)	Man Year	1/10 Man Yr.	8528.00	5969.60
	Sub Total				5969.60
	7th Year Maintenance				5969.60
1	Watch & Ward for every 10 Ha. (10 Motnts)	Man Year	1/10 Man Yr.	8528.00	5969.60
	Sub Total				5969.60
	8th Year Maintenance				5969.60
1	Watch & Ward for every 10 Ha. (10 Motnts)	Man Year	1/10 Man Yr.	8528.00	5969.60
	Sub Total				5969.60
	9th Year Maintenance				5969.60
1	Watch & Ward for every 10 Ha. (10 Motnts)	Man Year	1/10 Man Yr.	8528.00	5969.60
	Sub Total				5969.60
	10th Year Maintenance				5969.60
1	Watch & Ward for every 10 Ha. (10 Motnts)	Man Year	1/10 Man Yr.	8528.00	5969.60
	Sub Total				5969.60
	Total				423457.89
	Over Head expenses 5%				21172.89
	Wage Enhancement @ 10%				42345.79
	G. Total				486976.58
	Or Say				486977

Cost of Compensatory Afforestation per Ha. For 7-10 Year

Rs. 486977 per Ha.=486977 X 1.40=681768/-

Net Present Value per Ha. @ Rs.887000 X 0.700=620900-

Grand Total =1302668/-


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