

Plantation Model For Standard Plantation under Compensatory Afforestation

Plants Per Hectare : 1000 Nos.				Wage Rate :	Rs. 411
Sr. No.		Unit	Qty.	Unit Cost (in Rs.)	Amount
	Nursery				
	Nursery cost of raising plants	1100	1100	25.00	27500.00
A	Soil Work				
1	Site / Jungle Clearance (50%)	Ha.	0.5	6725.39	3362.70
2	Alignment & Dagbaling	Ha.	1	1233	1233.00
3	Earth works in Digging of Pits 1000 x 0.5 m x 0.5 m x 0.4 m=500x2.50x0.30x0.20	1 M3	175	97.1541	17001.97
4	Kana Stubbing 25%	Ha.	0.25	33626.8	8406.70
B	Plantation Work			0	
1	Refilling of Pits 1000x0.5mx0.5mx0.3	100 cum	75	34.4213	2581.60
2	Loading & Unloading of Plants (1000+10% Wastage=1100)	100 No.	1100	51.21	563.31
3	Carriage of Plants (1000+10% wastage =1100 avg. distance upto 10 km.)	100 No.	1100	246.6	2712.60
4	i) Carriage from site to site	100 No.	1000	164.4	1644.00
	ii) Planting of Plants (1000 No. including 10% replacement)	100 No.	1000	445	4450.00
5	Spot Irrigation (1000 Plants)	100 No.	1000	385.3125	3853.13
6	Application of Insecticide (2 Times)	100 No.	2000	51.375	1027.50
7	Application of Fertilizers (2 Times)	100 No.	2000	51.375	1027.50
8	Weeding & Hoeing 3 Times	100 No.	3000	447.99	13439.70
9	Hand Watering (10 Times)	100 No.	10000	385.3125	38531.25
10	Replanting of Plants 10%	100 No.	100	725.658	725.66
11	Rejungle Clearance (2 Times)	Per Ha.	1	2979.75	2979.75
12	Covering (25% plants) of plants	100 No.	250	369.9	924.75
13	Uncovering of plants	100 No.	250	41.1	102.75
14	Restubbing of Kana (1 Time)		0.25	33627.2	8406.80
15	Laying out & fixing of Barbed Wire	L/s			8100.00
16	Watch & Ward for every 10 Ha. (7 Months)	Man Year	1 Man 7 Month	10686	7480.20
17	Material				
	i) Insecticides / Fertilizers	L/s			6200.00
	ii) POL	L/s			6200.00
	iii) Barbed Wire	L/s			62000.00
	Sub Total				230454.85
	Maintenance 1 Year				
1	Cost of raising plants for 30% replacement	1 No.	300	25	7500.00
2	Reopening of Pits 300 x 0.50 x 0.50 x 0.30	1 m3	22.5	74.7194	1681.19
3	Refilling of pits with earth in other soils 300 x 0.50 x 0.50 x 0.30	1 m3	22.5	34.4213	774.48
4	Loading & Unloading of Plants	1 No.	300	0.5121	153.63
5	Carriage of Plants (30%)distance upto 10 Km.)	100 No.	300	246.6	739.80
6	Spreading of plants pit to pit	100 No.	300	164.4	493.20
7	Re-Planting to plants	100 No.	300	445	1335.00
8	Spot Irrigation	100 No.	300	385.3125	1155.94
9	Weeding & Hoeing (three)	100 No.	3000	447.99	13439.70
10	Application of Insecticide (2 Times)	100 No.	2000	51.375	1027.50
11	Application of Fertilizers (2 Times)	100 No.	2000	51.375	1027.50
12	Hand Watering (6 Times)	100 No.	6000	385.3125	23118.75
13	Rejungle Clearance (2 Times)	Per Ha.	1	2979.75	2979.75
14	Restubbing of Kana	Per Ha.	0.25	33626.8	8406.70
15	Watch & Ward for every 10 Ha. (7Months)	Man Year	1/ Man 7 months	10686	7480.20
16	Repair of Barbed Wire	L/s			6200.00

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17	POL & Machinery	L/s			6200.00
18	Material and Supply	L/s			6200.00
	Sub Total				89913.33
	2nd Year Maintenance				
1	Cost of raising plants for 15% replacement	1 No.	150	25	3750.00
2	Reopening of Pits 150 x 0.60 x 0.60 x 0.40	1 m3	21.6	74.7194	1613.94
3	Refilling of pits with earth in other soils 150 x 0.60 x 0.60 x 0.40	1 m3	21.6	34.4213	296.68
4	Loading & Unloading of Plants	1 No.	150	0.5121	76.82
5	Carriage of Plants & Wastage = 75 avg. distance upto 10 Km.)	500 No.	1	246.6	246.60
6	Spreading of plants pit to pit	100 No.	150	164.4	246.60
7	Re-Planting to plants	100 No.	150	445	667.50
8	Spot Irrigation	100 No.	150	385.3125	577.97
9	Weeding & Hoeing (Twice)	100 No.	2000	445.3394	8906.79
10	Hand Watering (5 Times)	100 No.	5000	385.3125	19265.63
11	Rejungle Clearance (2 Times)	Per Ha.	1	2979.75	2979.75
12	Pruning to Plants	100 No.	100	485.695	485.70
13	Watch & Ward for every 10 Ha. (7 Months)	Man Year	1 Man 7 Month	10686	7480.20
14	Repair of Barbed Wire	L/s			6200.00
15	POL & Machinery	L/s			6200.00
18	Material and Supply	L/s			6200.00
	Sub Total				65194.16
	3rd Year Maintenance				
1	Cost of raising plants for 10% replacement	1 No.	100	25	2500.00
2	Reopening of Pits 100 x 0.50 x 0.50 x 0.40	1 m3	10	74.7194	747.19
3	Refilling of pits with earth in other soils 100 x 0.50 x 0.50 x 0.30	1 m3	7.5	34.4213	197.78
4	Loading & Unloading of Plants	1 No.	100	0.5121	51.21
5	Carriage of Plants 50 avg. distance upto 10 Km.)	100 No.	100	2.46	246.00
6	Spreading of plants pit to pit	100 No.	100	164.4	164.40
7	Re-Planting to plants	100 No.	100	445	445.00
8	Spot Irrigation	100 No.	100	385.3125	385.31
9	Weeding & Hoeing (twice)	100 No.	2000	445.3394	8906.79
10	Hand Watering (5 Times)	100 No.	5000	385.3125	19265.63
11	Pruning to Plants 20%	100 No.	200	485.695	971.39
12	Watch & Ward for every 10 Ha. (7 Months)	Man Year	1 Man 7 Month	10686	7480.20
13	Repair of Barbed Wire	L/s		0	6200.00
14	POL & Machinery	L/s		0	6200.00
15	Material and Supply	L/s		0	6200.00
	Sub Total			0	59960.90
	4th Year Maintenance			0	
1	Cost of raising plants for 5% replacement	1 No.	50	25	1250.00
2	Reopening of Pits 50 x 0.50 x 0.50 x 0.40	1 m3	5	74.7194	373.60
3	Refilling of pits with earth in other soils 50 x 0.50 x 0.50 x 0.30	1 m3	3.75	34.4213	197.78
4	Loading & Unloading of Plants	1 No.	50	0.5121	25.61
5	Carriage of Plants 50 avg. distance upto 10 Km.)	100 No.	50	2.46	246.00
6	Spreading of plants pit to pit	100 No.	50	164.4	164.40
7	Re-Planting to plants	100 No.	50	445	445.00
8	Spot Irrigation	100 No.	50	385.3125	385.31
9	Weeding & Hoeing (twice)	100 No.	2000	445.3394	8906.79
10	Hand Watering (4 Times)	100 No.	4000	385.3125	15412.50
11	Pruning to Plants 30%	100 No.	300	485.695	1457.09

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12	Watch & Ward for every 10 Ha. (7 Months)	Man Year	1 Man 7 Month	10686	7480.20
13	Repair of Barbed Wire	L/S		0	6200.00
14	POL & Machinery	L/S		0	6200.00
15	Material and Supply	L/S		0	6200.00
	Sub Total			0	54323.92
				0	
	5th Year Maintenance			0	
1	Watch & Ward for every 10 Ha. (7 Months)	Man Year	1 Man 7 Month	10686	7480.20
	Sub Total			0	7480.20
	6th Year Maintenance			0	
1	Watch & Ward for every 10 Ha. (7 Months)	Man Year	1 Man 7 Month	10686	7480.20
	Sub Total			0	7480.20
	7th Year Maintenance			0	
1	Watch & Ward for every 10 Ha. (7 Months)	Man Year	1 Man 7 Month	10686	7480.20
	Sub Total			0	7480.20
	8th Year Maintenance			0	
1	Watch & Ward for every 10 Ha. (7 Months)	Man Year	1 Man 7 Month	10686	7480.20
	Sub Total			0	7480.20
	9th Year Maintenance			0	
1	Watch & Ward for every 10 Ha. (7 Months)	Man Year	1 Man 7 Month	10686	7480.20
	Sub Total			0	7480.20
				0	
	10th Year Maintenance			0	
1	Watch & Ward for every 10 Ha. (7 Months)	Man Year	1 Man 7 Month	10686	7480.20
	Sub Total				7480.20
	Total				544728.36
	Over Head expenses 5%				27236.42
	Wage Enhancement @ 10%				54472.84
	G. Total				626437.62
	Or say				626.44
				Per plant	626.44
1	Cost of Compensatory Afforestation of area = 0.0100 ha. @ 626438/- Rs. Per ha.			CA	62644
	G.Total				62644

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Schedule of plantation programmes

Detail of year wise break-up of requirements of funds is as under

S.No	Year	Area (in Ha.)	Rate/Ha	Total Amount
1	0th Year	0.100	230454.85	23045
2	1th Year	0.100	89913.33	8991
3	2th year	0.100	65194.16	6519
4	3th year	0.100	59960.90	5996
5	4th year	0.100	54323.92	5432
6	5th year	0.100	7480.20	748
7	6th year	0.100	7480.20	748
8	7th year	0.100	7480.20	748
9	8th year	0.100	7480.20	748
10	9th year	0.100	7480.20	748
11	10 year	0.100	7480.20	748
12	Overhead charges 5 %	0.100	27236.42	2724
13	Wage Enhancement @ 10%	0.100	54472.84	5447
	Total			62644

Technical details:-

Technical details of Compensatory Afforestation Scheme are as follows:-

- | | | |
|---|---|-------------------------------------|
| a | General Details | Planting by 100 Plants |
| b | Spacement | 1000X50X50X40
500X25mX30X20m |
| c | Strips of Canal, drain, minor | Shisham,neem, dek,kikar etc, |
| d | Plantation method | Degraded, Trench & Pits |
| e | Soil and Moisture Conservation Works | N.A |
| f | Protection (Fencing Watchman.
People's Participation etc.) | Fencing, Tree Guard, Watch Man |
| g | Proposed Monitoring Mechanisum | As per guidelines issued
by PCCF |
| h | Any other information | Nil |

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