

ESTIMATED COST FOR COMPENSATORY AFFORSTATION MODEL IN SHIWALIKS

Net Present Value (NPV)					
				Daily Wage Rate @ 383.56/-	
Sr. No.	Nature of Work	Unit	Unit Cost	Plants/Ha : 1000	Amount
Component					
A. Nursery					
1	Cost of seedling including development of Nursery (a) Original planting=1000 per ha. (b) Replacement 10%= 100 per ha No. in P. bag Total 1100	No	40.00	1100	44000
B. Soil /Adv Works.					
2	Cutting of Lantana Malha	Ha.	20921.36	0.60	12552.81
3	Lantana stubbing	Ha.	31381.49	0.20	6276.30
4	Uprooting of old stumps & Disposal	100 No.	76.70	100.00	76.70
5	Preparation of inspection path in Bouldary Soil 100 Mtr x .10 Mtr x 1Mtr = 10 M3	M3	153.42	10.00	1534.20
6	Survey And Alignment	Ha	1533.97	1	1533.97
7	(a) Earth work i.e. digging of trenches Bouldary Soil Size 700No. x 2 Mtr. x .40 Mtr x .35 Mtr =196 m3	M3	188.29	196	36905
	(b) Earth work i.e. digging of pits 300No. X .50 Mtr x .5 Mtr x .4 Mtr = 15 M3	M3	188.29	30	5649
					108528
C. Plantation					
8	(a) Refilling of trenches 700 No x .0.50 Mtr x .40 Mtr x .30 Mtr = 42 m3	M3	30.97	42.00	1300.74
	(b) Refilling of pits 300 no. x .50 x .50 x .35 = 26M3	M3	30.97	26.00	805.22
9	Carriage of seedlings by Tractor-Trolly	No	5.75	1000	5750.00
10	Carriage of seedlings by M/L lead 500mt.	Mtr	11.58	1000	11580.00
11	Loading & unloading of plants	100 No	46.37	1000	463.70
12	Planting of seedlings	No	4.88	1000	4880.00
15	Application of Insecticides 1000 x 2 times = 2000	100 No	67.00	2000	1340.00
16	Application of fertilizers 1000 x 2 times = 2000	100 No	67.00	2000	1340.00
17	Planting of Bhabbar Grass including extraction and carriage of Tussocks	100 No.	12.10	2000	242.00
18	Preparation of round Brush wood fencing including cutting carriage material (with binding)	No	28.76	1000	28760.00
					56461.66
D. Maintenance of Planting Year					
19	Repair i.e. cleaning and dressing of inspection path	M3	153.42	10	1534.20
20	Watch and ward for every 10 ha. Of plantation x 26 days	No.	38.36	52	1994.72
21	Re-Cutting of lantana/mallaha 2nd and 3rd times. 1.00 x 2 = 2	Ha	6961.00	2.00	13922.00
22	Weeding hoeing i.e. 2000mtr x 3 = 6000 mtr	Mtr	2.38	6000	14280.00
23	Application of Insecticides 1000 x 2 times = 2000	100 No	67.00	2000	1340.00
24	Application of fertilizers (twice) 1000 x 2 times = 2000	100 No	67.00	2000	1340.00
25	Desilting of Tranches 1000 No x 1.50 x .35 x .25 = 131.25	Mtr	69.73	131.25	9152.06
26	Carriage of seedlings by Tractor-Trolly	No	5.74	100	574.00
27	Carriage of seedlings by M/L lead 500mt.	Mtr	11.58	100	1158.00
28	Loading & unloading of plants	100 No	76.37	100	76.37
29	Cutting of Tall Weeds 2 mtr wide (100 x 2)	100 mtr	95.87	200	191.74
30	Providing thorny protection to plants against parcupine damage	100 No	191.70	400	766.80
31	Re -Planting of seedlings	No	4.88	100	488.00
32	Covering (25% Plants)	No.	3.41	250	852.50
33	Uncovering	No.	0.36	250	90.00
					47760.39
D. Material					
34	Insecticides including carriage	litre	452.35	10	4523.50
35	Fertilizers i.e. urea etc. including carriage	kg	61.70	200	12340.00
36	Misc. Items (tools, etc)	L/S			2500
					19364
Total Cost of Planting Year					232113
Contingency 10%					23211

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Total Cost of Planting Year					255324
1st Year Maintenance					
1	Re-opening of trenches for replacement 210 x .50 m x .40 x .40m = 16.80 m ³	M3	63.29	16.80	1063.23
2	Refilling of trenches 210 No. x 0.50m x 0.40m x 0.35m = 14.70 m ³	M3	39.81	14.70	585.25
3	Reopening of Pits 90 x .50 x .50 x .35 = 7.88 M3	M3	63.29	7.88	498.73
4	Refilling of Pits 90 x .50 x .50 x .35 = 7.88 M3	M3	39.81	7.88	313.70
5	Nursery cost of seedling	No	59.67	300	17901.00
6	Carriage of seedlings by Tractor-Trolly	No	5.75	300	1725.00
7	Carriage of seedlings by M/L labour lead 500mt.	100 Mtr	11.58	300	34.74
8	Loading & unloading of plants	100 No	46.37	300	139.11
9	Re- Planting of seedlings	No	4.88	300	1464.00
10	Weeding and hoeing to trenches (Twice)	Mtr	2.38	2000	4760.00
11	Application of insecticides (Twice)	100 No	67.00	2000	1340.00
12	Application of fertilizers (twice)	100 No	67.00	2000	1340.00
13	Repair of inspection path (Twice)	Mtr	153.42	200	30684
14	Cutting of lantana/mallah etc. per ha II & III times	Ha	6961.00	2.00	13922.00
15	Watch and ward for every 10 ha. Of plantation	No	38.36	26.00	997.36
16	Covering (25% Plants)	No.	3.41	250	852.50
17	Uncovering	No.	0.36	250	90.00
					77710.61
Cost of material					
17	Insecticides including carriage	litre	452.35	10	4523.50
18	Fertilizers i.e. urea etc. including carriage	kg	33.92	200	6784.00
19	Misc. Items (tools, etc)	L/S			2500
	POL	L/S			5000
					18807.50
Total					96518.11
Contingency 10%					9651.81
Total Cost of 1st Year Mtc					106169.92
2nd Year Maintenance					
1	Reopening of trenches for replacement 200 no x .50 m x .35m x .25m = 8.75 m ³	M3	63.29	8.75	553.79
2	Refilling of trenches 200 No. x 0.50m x 0.35m x 0.24m = 8.75 m ³	M3	39.81	8.75	348.34
3	Nursery cost of seedling	No	59.67	200	11934.00
4	Carriage of seedlings in P bags i) M/L Average Lead 1.5 km	No	11.58	200	2316.00
5	ii) Tractor trolly average lead 15 km (1000 plants per trolly)	No	5.75	200	1150.00
6	Loading & unloading of plants from T/ Trolly	100 No	46.37	200	92.74
7	Re -Planting of seedlings	No	4.88	200	976
8	Weeding and hoeing to tranches (Twice)	Mtr.	2.38	2000	4760.00
9	Application of insecticides (Twice)	100 No	67.00	2000	1340.00
10	Application of fertilizers (Twice)	100 No	67.00	2000	1340.00
11	Repair of inspection path (Twice)	M3	153.42	200	30684.00
12	Lantana cutting (subsequent time 1.00 Ha) x 2 times =2.00	Ha	6961.00	2.00	13922.00
					69416.87
Cost of material					
14	Insecticide	Kg	452.35	10.00	4523.50
15	Fertilizers i.e. urea etc.	Kg	33.92	200.00	6784.00
	POL	L/S			2000.00
					13307.50
Total					82724.37
Contingency 10%					8272.44
Total Cost of 2nd Year Mtc					90996.80
3rd Year Maintenance					
1	Reopening of trenches for replacement 100 no .50m x .35 m x .25m = 4.38 M3	M3	63.29	4.38	277.21
2	Refilling of trenches 100 No. x 0.50m x 0.35m x 0.25m = 4.38 M3	M3	39.81	4.38	174.37
3	Nursery cost of seedling	No	59.67	100	5967.00
4	Carriage of seedlings by mannual labour lead 500mt.	100 Mtr.	11.58	100	1158.00
5	Loading & unloading of plants from T/ Trolly	100 No	46.37	100	46.37

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6	ii) Tractor trolly average lead 15 km (1000 plants per trolly)	No	5.75	100	575.00
7	Re-Planting of seedlings	No	4.88	100	488.00
8	Repair of Barbed Wire fence in hills	100 Mtr	122.52	3900	4778
9	Weeding and hoeing to tranches (Twice)	Mtr.	2.38	2000	4760.00
10	Cutting of lantana/mallaha 11nd and 111rd times.	Ha	6961.00	1.40	9745.40
11	Application of fertilizers	100 No	67.00	1000	670.00
12	Repair of inspection path (Twice)	Mtr	153.42	200	30684.00
13	Pruning of plants	No.	10.00	125	1250.00
14	Jungle Clearance i.e. Bhang, Jhau tall weed etc.	No.	6276.10	0.2	1255.22
	Total				61828.81
	Cost of material				
15	Fertilizers i.e. urea etc.	Kg	33.92	28.00	949.76
	Total				949.76
	Total Cost of 3rd maintenance				62778.57
	Contingency 10%				6277.86
	SubTotal Cost of 3rd year maintenance				69056.43
	4th Year Maintenance				
1	Watch and ward for every 10 ha. Of plantation	No	38.36	26.00	997.36
	Total				997.36
	5th Year Maintenance				
1	Watch and ward for every 10 ha. Of plantation	No	38.36	26.00	997.36
	Total				997.36
	6th Year Maintenance				
1	Watch and ward for every 10 ha. Of plantation	No	38.36	26.00	997.36
	Total				997.36
	7th Year Maintenance				
1	Watch and ward for every 10 ha. Of plantation	No	38.36	26.00	997.36
	Total				997.36
	8th Year Maintenance				
1	Watch and ward for every 10 ha. Of plantation	No	38.36	26.00	997.36
	Total				997.36
	9th Year Maintenance				
1	Watch and ward for every 10 ha. Of plantation	No	38.36	26.00	997.36
	Total				997.36
	10th Year Maintenance				
1	Watch and ward for every 10 ha. Of plantation	No	38.36	26.00	997.36
	Total				997.36
	ABSTRACT				
1	Total Cost On Plantation Works				255324.38
2	Total Cost of 1st year Maintenance				106169.92
3	Total Cost of 2nd year Maintenance				90996.80
4	Total Cost of 3rd year Maintenance				69056.43
5	Total Cost of 4th year Maintenance				997.36
6	Total Cost of 5th year Maintenance				997.36
7	Total Cost of 6th year Maintenance				997.36
8	Total Cost of 7th year Maintenance				997.36
9	Total Cost of 8th year Maintenance				997.36
10	Total Cost of 9th year Maintenance				997.36
11	Total Cost of 10th year Maintenance				997.36
	G.Total				528529.06
	Comp. Aff. Scheme for 1.00 Ha.				528529.06
				Or Say	528529.00

Net Present value as fixed Govt for Open Forest
Diverted @ 957780 lac (957780*0.445 = 426212)

Rs

Total

213106

NPV amount @ 50% = 213106/- Rs


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