ESTIMATED COST FOR COMPENSATORY AFFORASTATION MODEL IN SHIWALIKS

1) Diverted Forest Area =0.8053 ha				Daily Wage Rate @ 383.56	
2) Comp. Aff. Schme area : 1.6106 + 2 times penal CA= 0.53 Total 2.1406 ha				Plants/Ha :1000	
3) Name of Site of Plantation : Sarinpur Forest					
4) No. of plants Planted =2141 plants					
5. Name of speices to be planted : Shisham, Arjun, Jamun , Drek etc.					

Sr. No.	Nature of Work	Unit	Unit Cost	Quantity	Amount
	Component				
	A. Nursery				
1	Cost of seedling including development of Nursary (a) Original planting=1000 per ha. (b) Replacement 10%= 100 per ha Total 1100 No. in P. bag	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	Prepration 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
					27701.66
	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	Hand Watering to Plants 300 No	No	3.83	300	1149.00
24	Application of Insecticides 1000 x 2 times = 2000	100 No	67.00	2000	1340.00
25	Application of fertilizers (twice) 1000 x 2 times = 2000	100 No	67.00	2000	1340.00
26	Desilting of Tranches 1000 No x 1.50 x .35 x .25 = 131.25	Mtr	69.73	131.25	9152.06
27	Carriage of seedlings by Tractor-Trolly	No	5.74	100	574.00
28	Carriage of seedlings by M/L lead 500mt.	Mtr	11.58	100	1158.00
29	Loading & unloading of plants	100 No	76.37	100	76.37
30	Cutting of Tall Weeds 2 mtr wide (100 x 2)	100 mtr	95.87	200	191.74
31	Providing thorny protection to plants against parcupine damage	100 No	191.70	400	766.80
32	Re -Planting of seedlings	No	4.88	100	488.00
33	Covering (25% Plants)	No.	3.41	250	852.50
34	Uncovering	No.	0.36	250	90.00
					48909.39
	D. Material				
34	Insecticides including carriage	litre	452.35	10	4523.50

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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				**204502**
	Contigency 10%				20450
	Total Cost of Planting Year				**224952**
	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 m3	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**
	Contigency 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 m3	M3	63.29	8.75	553.79
2	Refilling of trenches 200 No. x 0.50m x 0.35m x 0.24m = 8.75 m3	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
	Total				
	Cost of material				**69416.87**
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
	Total				**13307.50**
	Total				**82724.37**
	Contigency 10%				**8272.44**
	Total Cost of 2nd Year Mtc				**90996.80**
	3rd Year Maintenance				

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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
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 Barwed 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 IInd and IIIrd 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 3nd maintenance				**62778.57**
	Contigency 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**				**224952.28**
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				**498156.96**
	Comp. Aff. Scheme for 1.00 Ha.				**498156.96**
				Or Say	**498100.00**
	Scheme Details				

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A	Compensatory afforestationscheme 0.8053 ha x 2 = 1.6106 ha	Rs	1.6106	498100.00	802239.86
	Cost of per Ha. For 7-10 Year 2 Times Penal CA violated area. Ha 0.53 ha (0.2650 x 2 = 0.53 ha)	Rs	0.53	498100.00	**263993.00**
	Total of CA and 2Time Penal CA area is	**RS**	**2.1406**		**1066232.86**
B	**Forest Protection & Monitoring**				
	Fencing Barbad wire with Cement Pillar	Mtr	4250	175.00	**743750.00**
	Net Present Value	Ha.	0.8053	957780.00	**771300.2**
	2 time Penal NPV amount (771300*2= 1542600)	ha			1542600.4
	Simple Interest 12% on 2 times Penal NPV amount for 4 year 8 Month (1542600.4. X 12% X 4.8)			.	888538.0
	Total of NPV & Penal NPV	Rs			**3202438.6**
				G. Total	**5012421.49**
				Or Say	**5012422.00**

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07/11/22