

ESTIMATED COST FOR DEGRADED IN SHIWALIKS

FP/PB/Others/31455/2018 Diversion of 0.5392 ha of forest land for construction of Marriage Palace on Mukerian to Talwara Road Km 22-23 L/s at village Sathwan P.O Fatehpur Tehsil Mukerian Distt. Hoshiarpur under Dasuya forest Division (Under Section 4 & 5 PLPA 1900)

1) Diverted Forest Area =0.5392 Ha.		Daily Wage Rate @ 342
2) Comp. Aff. Schme area = 1.348 ha + 2 times Penal CA = 0.257 ha (Total Area 1.605 ha)		Plants/Ha :1000
3) Name of Site of Plantation : Bai Channel R/s (Bhussa Pul) (Dasuya Range)		
4) No. of plants Planted = CA Plants 1348 + Penal CA Plants 257 Plants Planted		

Sr. No.	Nature of Work Component	Unit	Unit Cost	Quantity	Amount
	A. Nursery				
1	Cost of seedling (upto tall plants) including (a) Original planting=1100 per ha. (b) Replacement 10%= 100 per ha Total 1100 No. in P. bag	No	75.00	1100	82500
	B. Soil /Adv Works.				
2	Lantana stubbing	Ha.	27981.10	0.60	16788.66
3	Survey and alignment	Ha.	1368.00	1.00	1368.00
4	Earth work i.e. digging of Pits of Bouldry Soil size 1000 No. x .50 Mtr. x .50 Mtr x .40 Mtr	M3	149.23	100	14923.00
					115580
	C. Plantation.				
5	Refilling of pits 1000 No x .0.50 Mtr x .50 Mtr x .30 Mtr =75 m3	M3	27.62	75.00	2071.50
6	Carriage of seedlings (Tall Plants) by Tractor-Trolly	No	10.83	1000	10830
7	Carriage of seedlings (Tall Plants) by M/L lead 500mt.	Mtr	9.60	1000	9600
8	Loading & unloading of plants (Tall Plants)	100 No	85.46	1000	854.60
9	Planting of seedlings (Tall Plants)	No	10.26	1000	10260
10	Fixing of cement concrete fence post including digging of pits 1/2 Mtr deep.	100 No.	1026.00	130	1334
11	Layout and Fixing of barwed wire per stand	100 Mtr	171.00	1950	3335
12	Application of Insecticides 1000 x 2 times = 1000	100 No	59.83	2000	1196.60
13	Application of fertilizers 1000 x 2 times = 1000	100 No	59.83	2000	1196.60
14	Preparation of inspection path in Bouldry Soil 50 Mtr x .10 Mtr x 1Mtr= 5 M3	M3	149.23	5	746.15
					41423.75
	D. Mtc on Planting Year				
15	Repair i.e. cleaning and dressing of inspection path	M3	149.23	5	746.15
16	Watch and ward for every 10 ha. Of plantation x 2.6 days	No.	342	26	8892.00
17	Cutting of lantana/mallaha 2nd and 3rd times. 0.50 x 2= 1	Ha	17890.00	1.00	17890.00

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Dasuya Forest Division Dasuya
03/5/21

Degraded

E:\KK 2021-22\Click List\Revised Case 0.5392 ha Sathwan\Estimate

Sr. No.	Nature of Work Component	Unit	Unit Cost	Quantity	Amount
18	Weeding hoeing i.e. 1000m x 3 = 3000 m	No.	3.00	3000	9000
19	Application of insecticides 1000 x 2 times = 2000	100 No	59.83	2000	1196.60
20	Application of fertilizers 100 x 2 times = 2000	100 No	59.83	2000	1196.60
21	Re-Opening of pits 100 No x .0.50 Mtr x .50 Mtr x .30 Mtrm = 2.18 m3	Mtr	56.43	7.5	423.23
22	Carriage of seedlings (Tall Plants) by Tractor-Trolley	No	10.83	1000	10830
23	Carriage of seedlings (Tall Plants) by M/L lead 500mt.	Mtr	9.60	100	960
24	Loading & unloading of plants (Tall Plants)	100 No	85.46	100	85.46
25	Re-Planting of seedlings (Tall Plants)	No	10.26	100	1026
26	Covering (25% Plants)	No.	3.05	250	762.50
27	Uncovering	No.	0.33	250	82.50
	E. Material				53091
28	Insecticides including carriage	litre	452.35	10	4523.50
29	Fertilizers i.e. urea etc. including carriage	kg	33.92	200	6784.00
30	Misc. Items (tools, etc)	L/S			5000
31	Fence Post (Concrete)	No.	350.00	130	45500
32	Barbed Wire	kg	85.00	325	27625
					89433
	Total Cost of Planting Year				299527
	Contingency 10%				29953
	Total Cost of Planting Year				329480
	1st year Maintenance (Labour rate Rs. 366/-)				
1	Re-opening of pits for replacement 250 no x .50m x .50m x .30m = 18.75 m3	M3	60.39	18.75	1132.31
2	Refilling of pits 250 No. x 0.50m x 0.50m x 0.30m = 18.75 m3	M3	37.99	18.75	712.34
3	Nursery cost of seedling (Tall Plants)	No	107.02	250	26754.39
4	Carriage of seedlings (Tall Plants) by Tractor-Trolley	No	11.59	250	2897.50
5	Carriage of seedlings (Tall Plants) by M/L labour lead 500mt.	100 Mtr	10.27	250	2568.42
6	Loading & unloading of plants (Tall Plants)	100 No	91.46	250	228.64
7	Re-Planting of seedlings (Tall Plants)	No	10.98	250	2745.00
8	Repair of Barbed Wire fence in hills	100 Mtr	109.16	1950	2129
9	Weeding and hoeing to trenches (Twice)	Mtr	2.28	4000	9117.89
10	Application of insecticides (Twice)	100 No	64.03	2000	1280.57
11	Application of fertilizers (twice)	100 No	64.03	2000	1280.57
12	Repair of inspection path (Twice)	Mtr	159.70	100	15970.22807
13	Cutting of lantana/mallah etc. per ha II & III times	Ha	6654.09	1.00	6654.09
14	Watch and ward for every 10 ha. Of plantation	No	366.00	26.00	9516
15	Covering (25% Plants)	No.	3.264035	250	816.01
16	Uncovering	No.	0.353158	250	88.29
					83890.84
	Cost of material				

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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			5000
					16307.50
	Total				100198.34
	Contingency 10%				10019.83
	Total Cost of 1st Year Mtc				110218.17
2nd Year Maintenance (Labour Rate Rs. 392/-)					
1	Reopening of pits for replacement 150 no x .50 m x .50 m x .30m = 11.25 m3	M3	64.68	11.25	727.65
2	Refilling of pits 150 No. x 0.50m x 0.50m x 0.30m = 11.25 m3	M3	40.69	11.25	457.75
3	Nursery cost of seedling (Tall Plants)	No	114.62	150	17193.38
4	Carriage of seedlings (Tall Plants) in P bags i) M/L Average Lead 1.5 km	No	11.00	150	1649.93
5	ii) Tractor trolly average lead 15 km (1000 plants per trolly)	No	12.41	150	1862.00
6	Loading & unloading of plants (Tall Plants) from T/ Trolly	100 No	97.96	150	146.94
7	Re -Planting of seedlings (Tall Plants)	No	11.76	150	1764
8	Repair of Barwed Wire fence in hills	100 Mtr	116.91	1950	2280
9	Weeding and hoeing to tranches (Twice)	Mtr.	2.44	4000	9767.87
10	Application of insecticides (Twice)	100 No	68.58	2000	1371.57
11	Application of fertilizers (Twice)	100 No	68.58	2000	1371.57
12	Repair of inspection path (Twice)	M3	171.04	100	17104.48
13	Lantana cutting (subsequent time 0.50 Ha) x 2 times =1.00	Ha	6413.84	1.00	6413.84
	Total				62110.81
	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
	Total				11307.50
	Total				73418.31
	Contingency 10%				7341.83
	Total Cost of 2nd Year Mtc				80760.14
3rd Year Maintenance (Labour Rate Rs. 419/-)					
1	Reopening of pits for replacement 100 no x 0.50 x .50 m x .30m	M3	69.14	7.50	518.51
2	Refilling of trenches 100 No. x 0.50m x 0.50m x 0.30m	M3	43.49	7.50	326.19
3	Nursery cost of seedling (Tall Plants)	No	122.51	100	12251.47
4	Carriage of seedlings (Tall Plants) by mannual labour lead 500mt.	100 Mtr.	11.76	100	1175.77
5	Loading & unloading of plants (Tall Plants) from T/ Trolly	100 No	104.71	100	104.71
6	ii) Tractor trolly average (Tall Plants) lead 15 km (1000 plants per trolly)	No	13.26	100	1326.48
7	Re-Planting of seedlings (Tall Plants)	No	12.57	100	1257.00
8	Repair of Barwed Wire fence in hills	100 Mtr	124.96	1950	2437
9	Weeding and hoeing to tranches (Twice)	Mtr.	2.61	4000	10432.24

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	Component				
10	Cutting of lantana/mallaha lind and Illrd times.	Ha	7617.66	0.70	5332.36
11	Application of fertilizers	100 No	73.30	1000	733.04
12	Repair of inspection path (Twice)	Mtr	182.82	100	18282.08
13	Pruning of plants	No.	3.33	150	500.23
14	Jungle Clearance i.e. Bhang, Jhau tall weed etc.	No.	6856.07	0.2	1371.21
	Total				56048.07
	Cost of material				
15	Fertilizers i.e. urea etc.	Kg	33.92	56.00	1899.52
	Total				1899.52
	Total Cost of 3rd maintenance				57947.59
	Contingency 10%				5794.76
	SubTotal Cost of 3rd year maintenance				63742.35
	4th Year Maintenance (Labour rate Rs. 448/-)				
1	Watch and ward for every 10 ha. Of plantation	No	448.00	26.00	11648
	Total				11648.00
	5th Year Maintenance (Labour rate Rs. 479/-)				
1	Watch and ward for every 10 ha. Of plantation	No	479.00	26.00	12454
	Total				12454.00
	6th Year Maintenance (Labour rate Rs. 513/-)				
1	Watch and ward for every 10 ha. Of plantation	No	513.00	26.00	13338
	Total				13338.00
	7th Year Maintenance (Labour rate Rs. 549/-)				
1	Watch and ward for every 10 ha. Of plantation	No	549.00	26.00	14274
	Total				14274.00
	8th Year Maintenance (Labour rate Rs. 587/-)				
1	Watch and ward for every 10 ha. Of plantation	No	587.00	26.00	15262
	Total				15262.00
	9th Year Maintenance (Labour rate Rs. 628/-)				
1	Watch and ward for every 10 ha. Of plantation	No	628.00	26.00	16328
	Total				16328.00
	10th Year Maintenance (Labour rate Rs. 672/-)				
1	Watch and ward for every 10 ha. Of plantation	No	672.00	26.00	17472
	Total				17472.00
	ABSTRACT				
1	Total Cost On Plantation Works				329479.64
2	Total Cost of 1st year Maintenance				110218.17
3	Total Cost of 2nd year Maintenance				80760.14
4	Total Cost of 3rd year Maintenance				63742.35
5	Total Cost of 4th year Maintenance				11648.00
6	Total Cost of 5th year Maintenance				12454.00
7	Total Cost of 6th year Maintenance				13338.00

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Sr. No.	Nature of Work	Unit	Unit Cost	Quantity	Amount
	Component				
8	Total Cost of 7th year Maintenance				14274.00
9	Total Cost of 8th year Maintenance				15262.00
10	Total Cost of 9th year Maintenance				16328.00
11	Total Cost of 10th year Maintenance				17472.00
	G.Total				684976.30
	Comp. Aff. Scheme for 1.00 Ha.				684976.00
	Comp. Aff. Scheme for 1.348 ha	Rs	1.348	684976	923347.65
	Entry Point activity 10 % (Development works of village under concern JFMC/VFC)				92334.76
	Cost of per Ha. For 7-10 Year 2 Times Penal CA violated area 0.257	Rs	0.257	684976	176038.83
	Total CA + Penal CA Area				1191721.24
	Net Present Value	Rs	0.5392	626000	337539.20
	2 time Penal NPV amount (337539 x 2 = 675078.40)				675078.40
	Simple Interest 12% on 2 Penal NPV amount for 1 year (675078.40 X 12% X 1 Year)				81009.41
	Total NPV + Penal NPV				1093627.01
	Grand Total CA + NPV				2285348.25
				Or Say	2285348.00

Note:- Labour Rate increased average 7% every year

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