

Diversion of 0.0079 ha. of forest land for approach road to Residential Colony Holy City Enclave at Pattik (WML), Opp. Court Complex Pattik, on Amritsar-Patti Road, Tehsil Pattik, District Tarn Taran.

CA Scheme

Wage Rate: 411/-

Plants Per ha. 1000 No.

Plantation Model for Standard Plantation under Compensatory Afforestation

Advance Work and Plantation					
	Name of Work	Unit	Qty	Unit Cost (In Rs.)	Total Amt
	Nursery				
	Cost of raising plants	1.100	1100	23.29	25614.73
A	Soil Works				
1	Site /Jungle Clearance (50%)	Ha.	0.50	6249.09	3124.54
2	Alignment & Dagbailing	Ha.	1	1145.68	1145.68
3	Earth Work- (a) Digging of Pits 1000x 0.5m x0.5m x0.4m	1M ³	100	118.04	11803.73
4	Kana Stubbing 25%	Ha.	0.25	31245.31	7811.33
B	Plantation Work				
1	a) Refilling of Pits 1000 x 0.5m x0.5m x0.4m	100 cum	75	3198.35	2398.76
2	Loading & Unloading of Plants (1000+10% Wastage=1100)	100 No	1100	640.37	7044.05
3	Carriage of Plants (1000+10% Wastage=1100 avg. distance upto 10 km)	100 No	1100	229.14	2520.49
4	i) Carriage from site to site	100 No	1000	152.76	1527.57
	ii) Planting of Plants (1000 No Including 10% replacement)	100 No	1000	1145.68	11456.77
5	Spot Irrigation (1000 Plants)	100 No	1000	238.68	2386.83
6	Application of Insecticide (2 times)	100 No	1000	47.74	477.37
7	Application of Fertilizers (2 times)	100 No	1000	47.74	477.37
8	Weeding & Hoeing 3 times	100 No	3000	416.26	12487.88
9	Hand Watering (12 Times)	100 No	12000	238.68	28641.93
10	Replanting of Plants 10%	100 No	100	674.26	674.26
11	Rejungle Clearance (2 times)	Per Ha.	1	2768.72	2768.72
12	Covering (25% plants) of plants	100 No	250	343.70	859.26
13	Uncovering of plants	100 No	250	38.19	95.47
14	Restubbing of Kana (1 time)		0.25	31245.66	7811.42
15	Laying out & fixing of Barbed Wire	L/s			9165.42
16	Watch & Ward for every 10 Ha. (7 months)	Man year	1 Man 7 Month	9929.20	9929.20
17	Material				
	i) Insecticides/Fertilizers	L/s			5000.00
	ii) POL	L/s			5000.00
	iii) Barbed Wire& fencing	L/s			50000.00
			Sub Total		210222.76

Divisional Forest Officer
Amritsar Forest Division
Amritsar

Estimate 411

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Maintenance I Year					
1	Cost of raising plants for 30% replacement	1 No.	300	23.29	6985.84
2	Reopening of Pits 300 x 0.50 x 0.50 x 0.30	1 m3	21.60	69.43	1499.64
3	Refilling of pits with earth in other soils 300	1 m3	21.6	31.98	690.84
4	Loading & Unloading of Plants	1 No.	300	2.86	859.26
5	Carriage of Plants (300+10% Wastage=330 avg. distance upto 10 km.)	100 No	1	228.44	228.44
6	Spreading of plants pit to pit	100 No	165	152.76	252.05
7	Re-planting Tall Plants	100 No	165	383.15	632.20
8	Spot Irrigation	100 No.	165	238.68	393.83
9	Weeding & Hoeing (thrice)	100 No	3000	416.26	12487.88
10	App. Of Fertilizer (two times)	100 No	1000	47.74	477.37
11	App. Of Insecticide (two times)	100 No	1000	47.74	477.37
12	Hand watering (6 times)	100 No	6000	416.26	24975.76
13	Rejungle Clearance (2 times)	Per Ha.	1.00	2768.72	2768.72
14	Restubbing of Kana	Per Ha.	0.25	31245.31	7811.33
15	Watch & Ward for every 10 Ha. (10 months)	Man year	1/10 Man yr.	9929.20	9929.20
16	Repair of Barbed wire	L/s			5000.00
17	POL & Machinery	L/s			5000.00
18	Material and supply	L/s			5000.00
			Sub Total		85469.70
Maintenance II Year					
1	Cost of raising plants for 15% replacement	No.	150	23.29	3492.92
2	Reopening of Pits 250 x 0.60 x 0.60 x 0.40	1 m3	21.6	69.43	1499.64
3	Refilling of pits with earth in other soils 250 x 0.60 x 0.60 x 0.40	1 m3	21.6	31.98	690.84
4	Loading & Unloading of Plants	1 No.	75	2.86	214.81
5	Carriage of Plants = 75 avg. distance upto 10 km.)	100 No	1	228.44	228.44
6	Spreading of plants pit to pit	100 No	75	152.76	114.57
7	Re-planting to tall plants	100 No	75	266.73	200.05
8	Spot Irrigation	100 No.	75	238.68	179.01
9	Weeding & Hoeing (twice)	100 No	2000	416.26	8325.25
10	Hand Watering 5 Times	100 No	500	238.68	11934.14
11	Rejungle Clearance (2 times)	Per Ha.	1.00	2768.72	2768.72
12	Pruning to plants	100 No.	100	451.30	451.30
14	Watch & Ward for every 10 Ha.	Man year	1/10 Man yr.	9929.20	9929.20
15	Repair of Barbed wire	L/s			5000.00
16	POL & Machinery	L/s			5000.00
17	Material and supply	L/s			5000.00
			Sub Total		55028.88

Maintenance III Year					
1	Cost of raising plants for 10% replacement	1 No.	100	23.29	2328.61
2	Reopening of Pits 200 x 0.50 x 0.50 x 0.40	1 m3	10	6942.76	694.28
3	Refilling of pits with earth in other soils 100 x 0.60 x 0.60 x 0.40	1 m3	7.5	31.98	239.88
4	Loading & Unloading of Plants	1 No.	100	2.86	286.42
5	Carriage of Plants 200 avg. distance upto 10 km.)	100 No.	100	1.16	116.43
6	Spreading of plants pit to pit	100 No.	100	152.76	152.76
7	Re-planting to plants	100 No.	100	266.73	266.73
8	Spot Irrigation	100 No.	100	238.68	238.68
9	Weeding & Hoeing (Twice)	100 No.	2000	416.26	8325.25
10	Hand Watering (5 times)	100 No.	5000	238.68	11934.14
11	Pruning to plants 20%	100 No.	200	451.30	902.59
12	Watch & Ward for every 10 Ha.	Man year	1/10 Man yr.	9929.20	9929.20
13	Repair of Barbed wire	L/s			5000.00
14	POL & Machinery	L/s			5000.00
15	Material and supply	L/s			5000.00
				Sub Total	50414.97
Maintenance IV Year					
1	Cost of raising plants for 5% replacement	1 No.	50	23.29	1164.31
2	Reopening of Pits 50 x 0.50 x 0.50 x 0.40	1 m3	5	6942.76	347.14
3	Refilling of pits with earth in other soils 100 x 0.50 x 0.50 x 0.30	1 m3	3.75	31.98	119.94
4	Loading & Unloading of Plants	1 No.	50	2.86	143.21
5	Carriage of Plants = 150 avg. distance upto 10 km.)	100 No.	50	1.16	58.22
6	Spreading of plants pit to pit	100 No.	50	152.76	76.38
7	Re-planting to plants	100 No.	50	266.73	133.37
8	Spot Irrigation	100 No.	50	238.68	119.34
9	Weeding & Hoeing (Twice)	100 No.	2000	416.26	8325.25
10	Hand Watering (4 times)	100 No.	4000	238.68	9547.31
11	Pruning to plants 30%	100 No.	300	451.30	1353.89
12	Watch & Ward for every 10 Ha.	Man year	1/10 Man yr.	9929.20	9929.20
13	Repair of Barbed wire	L/s			5000.00
14	POL & Machinery	L/s			5000.00
15	Material and supply	L/s			5000.00
				Sub Total	46317.55
Maintenance V Year					
1	Watch and Ward every 10 ha. (10 Months)	Man Year	1/10 Man yr.	9929.20	9929.20
				Sub Total	9929.20
Maintenance VI Year					
1	Watch and Ward every 10 ha. (10 Months)	Man Year	1/10 Man yr.	9929.20	9929.20
				Sub Total	9929.20
Maintenance VII Year					
1	Watch and Ward every 10 ha. (10 Months)	Man Year	1/10 Man yr.	9929.20	9929.20
				Sub Total	9929.20

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2. Schedule of Plantation Programme:-

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

Year	Area	Rate/ha.	Total amount
0 th year	0.1	210222.76	21022.276
1 st year	0.1	85469.70	8546.97
2 nd year	0.1	55028.88	5502.888
3 rd year]	0.1	50414.97	5041.497
4 th year	0.1	46317.55	4631.755
5 th year	0.1	9929.20	992.92
6 th year	0.1	9929.20	992.92
7 th year	0.1	9929.20	992.92
8 th year	0.1	9929.20	992.92
9 th year	0.1	9929.20	992.92
10 th year	0.1	9929.20	992.92
Expenses overhead 5%	0.1	25351.45	2535.145
Supervision charge 10%	0.1	50702.91	5070.291
Total:-			58308.342
Or Say			58308

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3. Technical details:-

Technical Details of Compensatory Afforestation Scheme Are As Follows:-

- General Details:- **Blank Area to be stocked by planting 0.1 ha Area.**
- Spacement:- **4m x 2.5 m**
- Species:- **Shisham, Drek, Euc, Arjun etc.**
- Plantation Method:- **Pits & Ridge Method**
- Soil And Moisture Conservation Works:- **N.A.**
- Protection (Fencing, Watch Man, People's Participation Etc.) **Watchman**

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