

ESTIMATE OF PLANTATION WORKS

Name of Scheme:- Compensatory Afforestation

Wage Rate: 305/-

Plants : 1000 No.

Advance Work and Plantation					
	Name of Work	Unit		Qty	Total Amt
	Nursery				
	Cost of raising plants	1	24.16	1100	17600.00
	Soil Works				
1	Site /Jungle Clearance (25%)	Ha.	4988.71	0.25	826.00
2	Alignment & Dagbailing	Ha.	792.70	1	525.00
3	Earth Work- (a) Digging of Pits 800x 0.5m x0.5mx0.4m	1M ³	93.61	80	4960.00
	(b) Preparation of Ridges 500 x .8x.50 m (base 100 cm, top 60 cm)	1M ³	81.53	200 m3	10816.00
4	Kana Stubbing 20%	Ha.	24952.62	0.20	3305.20
1	a) Refilling of Pits	100 No	126.83	900	756.00
	(b) Digging of slots 200 x . 3 x .3 x .2 m	m3	55.87	3.60	133.20
2	Loading & Unloading of Plants (1000+10% Wastage=1100).	100 No	37.75	1100	275.00
3	Carriage of Plants (1000+10% Wastage=1100 avg. distance upto 10 km.)	100 No	182.70	1100	1331.00
4	i) Carriage from site to site	100 No	10.57	1000	70.00
	ii) Planting of Plants (1000 No Including 10% replacement)	100 No	330.67	1000	2190.00
5	Spot Irrigation (1000 Plants)	100 No	274.80	1000	1820.00
6	Application of Insecticide (2 times)	100 No	37.75	2000	500.00
7	Application of Fertilizers (2 times)	100 No	37.75	2000	500.00
8	Weeding & Hoeing 3 times	100 No	330.67	3000	6570.00
9	Hand Water (12 times)	100 No	274.80	12000	21840.00
10	Replanting of Plants 10%	100 No	836.49	100	554.00
11	Rejungle Clearance (2 times)	Per Ha.	2210.50	0.5	732.00
12	Covering (25% plants) of plants	100 No	274.80	250	455.00
13	Uncovering of plants	100 No	30.20	250	50.00
14	Restubbing of Kana (1 time)		9485.20	0.2	1256.40
15	Laying out & fixing of Barbed Wire	L/s			4200.00
16	Watch & Ward for every 10 Ha. (7 months)	Man year	5550.40	1Man 7 Month	5550.40
17	Material				
	i) Insecticides/Fertilizers	L/s			6794.55
	ii) POL	L/s			15099.01
	iii) Barbed Wire& fencing	L/s			60396.04
				Sub Total	169104.80
Maintenance I Year					
1	Cost of raising plants for 30% replacement	1 No.	24.16	300	4800.00
2	Reopening of Pits 300 x 0.50 x 0.50 x 0.30	1 m3	33.22	22.5m3	495.00
3	Refilling of pits with earth in other soils 300 x 0.50 x 0.50 x 0.30	1 m3	16.61	22.5m3	247.50
4	Loading & Unloading of Plants	1 No.	0.38	300	75.00

5	Carriage of Plants (300+10% Wastage=330 avg. distance upto 10 km.)	100 No	182.70	330	399.3
6	Spreading of plants pit to pit	100 No	10.57	300	21.0
7	Re-planting to plants	100 No	330.67	300	657.0
8	Spot Irrigation	100 No.	274.80	300	546.0
9	Weeding & Hoeing (thrice)	100 No	330.67	3000	6570.00
10	App. Of Fertilizer (two times)	100 No	37.75	2000	500.00
11	App. Of Insecticide (two times)	100 No	37.75	2000	500.00
12	Hand watering 8 Times	100 No	274.80	8000	14560.00
13	Rejungle Clearance (2 times)	Per Ha.	2210.50	0.50	732.00
14	Restubbing of Kana	Per Ha.	9485.20	0.20	1256.40
15	Watch & Ward for every 10 Ha. (10 months)	Man year	79300.00	1/10 Man yr.	7930.00
16	Repair of Barbed wire	L/s			6794.55
17	POL & Machinery	L/s			15099.01
18	Material and supply	L/s			10569.31
				Sub Total	71752.07

Maintenance II Year

1	Cost of raising plants for 25% replacement	No.	24.16	250	4000.00
2	Reopening of Pits 200 x 0.50 x 0.50 x 0.30	1 m3	33.22	18.75 m3	412.50
3	Refilling of pits with earth in other soils 200 x 0.50 x 0.50 x 0.30	1 m3	16.61	15 m3	116.10
4	Loading & Unloading of Plants	1 No.	0.38	250	62.50
5	Carriage of Plants (200+10% Wastage=220 avg. distance upto 10 km.)	100 No	182.70	220	266.2
6	Spreading of plants pit to pit	100 No	10.57	250	17.5
7	Re-planting to plants	100 No	330.67	250	547.5
8	Spot Irrigation	100 No.	274.80	250	455.0
9	Weeding & Hoeing (twice)	100 No	330.67	3000	6570.00
10	Hand Watering 5 Times	100 No	274.80	5000	9100.00
11	Rejungle Clearance (2 times)	Per Ha.	2210.50	0.50	732.00
12	Stubbing of Kana	Per Ha.	9485.20	0.20	1256.40
13	Pruning to plants	100 No.	277.82	200	368.00
14	Watch & Ward for every 10 Ha.	Man year	87565.20	1/10 Man yr.	8756.52
15	Repair of Barbed wire	L/s			6794.55
16	POL & Machinery	L/s			15099.01
17	Material and supply	L/s			10569.31
				Sub Total	65123.09

Maintenance III Year

1	Cost of raising plants for 20% replacement	1 No.	24.16	200	3200.00
2	Reopening of Pits 200 x 0.50 x 0.50 x 0.30	1 m3	33.22	15 m3	330.00
3	Refilling of pits with earth in other soils 100 x 0.50 x 0.50 x 0.30	1 m3	18.12	15 m3	180.00
4	Loading & Unloading of Plants	1 No.	0.38	200	50.00
5	Carriage of Plants (100+10% Wastage=110 avg. distance upto 10 km.)	100 No	182.70	110	133.10
6	Spreading of plants pit to pit	100 No	10.57	200	14.00
7	Re-planting to plants	100 No	330.67	200	438.00
8	Spot Irrigation	100 No.	274.80	200	364.00
9	Weeding & Hoeing (thrice)	100 No	330.67	3000	6570.00
10	Hand Watering (3 times)	100 No	274.80	3000	5460.00
11	Rejungle Clearance (2 times)	Per Ha.	2210.50	0.50	732.00
12	Stubbing of Kana	Per Ha.	9485.20	0.20	1256.40
13	Pruning to plants 20%	100 No.	277.82	200	368.00
14	Watch & Ward for every 10 Ha.	Man year	79300.00	1/10 Man yr.	7930.00
15	Repair of Barbed wire	L/s			6794.55
16	POL & Machinery	L/s			15099.01
17	Material and supply	L/s			10569.31

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				Sub Total	59488.37
Maintenance IV Year					
1	Cost of raising plants for 15% replacement	1 No.	24.16	150	2400.00
2	Reopening of Pits 150 x 0.50 x 0.50 x 0.30	1 m3	33.22	11.25 m3	247.50
3	Refilling of pits with earth in other soils 150 x 0.50 x 0.50 x 0.30	1 m3	18.12	11.25 m3	135.00
4	Loading & Unloading of Plants	1 No.	0.38	150	37.50
5	Carriage of Plants (100+10% Wastage=110 avg. distance upto 10 km.)	100 No	182.70	110	133.10
6	Spreading of plants pit to pit	100 No	10.57	150	10.50
7	Re-planting to plants	100 No	330.67	150	328.50
8	Spot Irrigation	100 No.	274.80	150	273.00
9	Weeding & Hoeing (thrice)	100 No	330.67	3000	6570.00
10	Hand Watering (3 times)	100 No	274.80	3000	5460.00
11	Rejungle Clearance (2 times)	Per Ha.	2210.50	0.50	732.00
12	Stubbing of Kana	Per Ha.	9485.20	0.20	1256.40
13	Pruning to plants 30%	100 No.	277.82	300	552.00
14	Watch & Ward for every 10 Ha.	Man year	79300.00	1/10 Man yr.	7930.00
15	Repair of Barbed wire	L/s			6794.55
16	POL & Machinery	L/s			15099.01
17	Material and supply	L/s			10569.31
				Sub Total	58528.37
Maintenance V Year					
1	Cost of raising plants for 10% replacement	1 No.	24.16	100	1600.00
2	Reopening of Pits 100 x 0.50 x 0.50 x 0.30	1 m3	33.22	7.5 m3	165.00
3	Refilling of pits with earth in other soils 100 x 0.50 x 0.50 x 0.30	1 m3	18.12	7.5 m3	90.00
4	Loading & Unloading of Plants	1 No.	0.38	100	25.00
5	Carriage of Plants (100+10% Wastage=110 avg. distance upto 10 km.)	100 No	182.70	110	133.10
6	Spreading of plants pit to pit	100 No	10.57	100	7.00
7	Re-planting to plants	100 No	330.67	100	219.00
8	Spot Irrigation	100 No.	274.80	100	182.00
9	Weeding & Hoeing (thrice)	100 No	330.67	3000	6570.00
10	Hand Watering (3 times)	100 No	274.80	3000	5460.00
11	Rejungle Clearance (2 times)	Per Ha.	2210.50	0.50	732.00
12	Stubbing of Kana	Per Ha.	9485.20	0.20	1256.40
13	Pruning to plants 30%	100 No.	277.82	300	552.00
14	Watch & Ward for every 10 Ha.	Man year	79300.00	1/10 Man yr.	7930.00
15	Repair of Barbed wire	L/s			6794.55
16	POL & Machinery	L/s			15099.01
17	Material and supply	L/s			10569.31
				Sub Total	57384.37
Maintenance VI Year					
1	Cost of raising plants for 5% replacement	1 No.	24.16	50	800.00
2	Reopening of Pits 50 x 0.50 x 0.50 x 0.30	1 m3	33.22	3.75 m3	82.50
3	Refilling of pits with earth in other soils 50 x 0.50 x 0.50 x 0.30	1 m3	18.12	3.75 m3	45.00
4	Loading & Unloading of Plants	1 No.	0.38	50	12.50
5	Carriage of Plants (100+10% Wastage=110 avg. distance upto 10 km.)	100 No	182.70	110	133.10

6	Spreading of plants pit to pit	100 No	10.57	50	3.50
7	Re-planting to plants	100 No	330.67	50	109.50
8	Spot Irrigation	100 No.	274.80	50	91.00
9	Weeding & Hoeing (thrice)	100 No	330.67	3000	6570.00
10	Hand Watering (3 times)	100 No	274.80	3000	5460.00
11	Rejungle Clearance (2 times)	Per Ha.	2210.50	0.50	732.00
12	Stubbing of Kana	Per Ha.	9485.20	0.20	1256.40
13	Pruning to plants 30%	100 No.	277.82	300	552.00
14	Watch & Ward for every 10 Ha.	Man year	79300.00	1/10 Man yr.	7930.00
15	Repair of Barbed wire	L/s			6794.55
16	POL & Machinery	L/s			15099.01
17	Material and supply	L/s			10569.31
				Sub Total	56240.37
Maintenance VII Year					
1	Re Jungle Clearance two times	Per Ha.	2210.50	0.50	732.00
2	Re-Kana Stubbing	Per Ha.	9485.20	0.20	1256.40
3	Watch and Ward every 10 ha.		87565.20	1/10 Man yr.	8756.52
				Sub Total	10744.92
Maintenance VIII Year					
1	Re Jungle Clearance two times	Per Ha.	2210.50	0.50	732.00
2	Re-Kana Stubbing	Per Ha.	9485.20	0.20	1256.40
3	Watch and Ward every 10 ha.		87565.20	1/10 Man yr.	8756.52
				Sub Total	10744.92
Maintenance IX Year					
1	Watch and Ward every 10 ha.	Per Ha.	87565.20	1/10 Man yr.	8756.52
				Sub Total	8756.52
Maintenance X Year					
1	Watch and Ward every 10 ha.	Per Ha.	87565.20	1/10 Man yr.	8756.52
				Sub Total	8756.52
				TOTAL	576624.33
	Over Head expenses 5%				28831.22
				G.Total	605455.54

Cost of Compensatory Afforestation per Ha. For 10 Years

@ Rs.605456 Per Ha. = 0.01213 Ha X 2500 = 30.32/1000 = 0.030 X 605456 Ha = 18164/-

Net Present Value Per Ha. @ Rs 626000 X 0.01213 = 7593/-

Grand Total = Rs. = 25757/-

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Divisional Forest Officer,
Jalandhar Forest Division,
Phillaur
Jalandhar 7/7/15