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Diversion of 0.0987 Hectare forest land for construction of approach road for proposed Retail Outlet at Village Muchhal, 95//19/2/1, 95//22/2, CH. 428.285 (RHS), NH-1 (NEW NH-03), on Jalandhar-Amritsar road, Tehsil Baba Bakala, Distt. Amritsar (Punjab).

Estimate for planting of Tall plants

	Name of Work	Unit	Unit Cost (In Rs.)	Qty	Total Amt
	Nursery				
	Cost of raising plants	1 No	60.00	550	33000.00
A	Soil Works				
1	Site / Jungle Clearance (50%)	Ha.	5367.22	0.50	2683.61
2	Alignment & Dugbailing	Ha.	984.00	1	984.00
3	Earth Work- (a) Digging of Pits 1000x 0.3m x0.5m x0.4m	1M3	101.38	90	9124.20
4	Kana Stubbing 25%	Ha.	26836.00	0.25	6709.00
B	Plantating				
1	a) Refilling of Pits	100 cum	2747.00	72	197784.00
2	Loading & Unloading of Plants (500+10% Wastage=550)	100 No	246.00	550	135300.00
3	Carriage of Plants (500+10% Wastage=550) avg. distance upto 10 km) 500 Trolly	100 No	196.80	1	196.80
4	i) Carriage from site to site	100 No	131.20	550	72160.00
	ii) Planting of Plants (500 No Including 10% replacement)	100 No	984.00	550	541200.00
5	Spot Irrigation (500 Plants)	100 No	205.00	500	102500.00
6	Application of Insecticide (2 times)	100 No	41.00	1000	41000.00
7	Application of Fertilizers (2 times)	100 No	41.00	1000	41000.00
8	Weeding & Hoeing 3 times	100 No	357.52	1500	536280.00
9	Hand Water 6 months x 2 times = 12 Times	100 No	205.00	6000	1230000.00
10	Replanting of Plants 10%	100 No	579.11	50	28955.50
11	Rejungle Clearance (2 times)	Per Ha.	2378.00	1	2378.00
12	Covering (25% plants) of plants	100 No	295.20	125	36900.00

13	Uncovering of plants	100 No	32.80	125	4100.00
14	Restubbing of Kana (1 time)	Ha.	26836.30	0.25	6709.08
15	Laying out & fixing of Barbed Wire	L/s			4200.00
16	Watch & Ward for every 10 Ha. (7 months)	Man year	8528.00	1 Man 7 Month	5969.60
17	Material				
	i) Insecticides/Fertilizers	L/s			5000.00
	ii) POL	L/s			5000.00
				Sub Total	111626.16
Maintenance 1 Year					
1	Cost of raising plants for 30% replacement	1 No.	60	300	90000.00
2	Reopening of Pits 150 x 0.60 x 0.60 x 0.40	1 m3	59.63	21.60	1288.01
3	Refilling of pits with earth in other soils 150 x 0.60 x 0.60 x 0.40	1 m3	27.47	21.6	593.35
4	Loading & Unloading of Plants	1 No.	2.46	300	369.00
5	Carriage of Plants (300+10% Wastage=330 avg. distance upto 10 km.)	500 No	196.2	1	196.20
6	Spreading of plants pit to pit	100 No	131.2	165	216.48
7	Re-planting Tall Plants	100 No	329.08	165	542.98
8	Spot Irrigation	100 No.	205	165	338.25
9	Weeding & Hoeing (thrice)	100 No	357.52	3000	5362.80
10	App. Of Fertilizer (two times)	100 No	41	1000	410.00
11	App. Of Insecticide (two times)	100 No	41	1000	410.00
12	Hand Water 6 months x 2 times = 12 Times	100 No	357.52	6000	21451.20
13	Rejungle Clearance (2 times)	Ha.	2378	1.00	2378.00
14	Restubbing of Kana	Ha.	26836	0.25	6709.00
15	Watch & Ward for every 10 Ha. (10 months)	Man year	8528	1/10 Man yr.	8528.00

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16	POL	L/s			5000.00
17	Material and supply	L/s			5000.00
				Sub Total	67793.27
Maintenance II Year					
1	Cost of raising plants for 15% replacement	No.	60	75	4500.00
2	Reopening of Pits 75 x 0.60 x 0.60 x 0.40	1 m3	59.63	10.8	644.00
3	Refilling of pits with earth in other soils 75 x 0.60 x 0.60 x 0.40	1 m3	27.47	10.8	296.68
4	Loading & Unloading of Plants	1 No.	2.46	75	184.50
5	Carriage of Plants - 75 avg. distance upto 10 km.)	500 No	196.2	1	196.20
6	Spreading of plants pit to pit	100 No	131.2	75	2.45
7	Re-planting to tall plants	100 No	229.08	75	171.81
8	Spot Irrigation	100 No.	205	75	153.75
9	Weeding & Hoeing (twice)	100 No	357.52	1500	5362.80
10	Hand Watering 5 Times	100 No	205	5000	10250.00
11	Rejungle Clearance (2 times)	Ha.	2378	1.00	2378.00
12	Stubbing of Kana	Ha.	26836	0.10	2683.60
13	Pruning to plants	100 No.	387.61	100	387.61
14	Watch & Ward for every 10 Ha.	Man year	8528	1/10 Man yr.	8528.00
15	POL	L/s			5000.00
16	Material and supply	L/s			5000.00
				Sub Total	45835.35
Maintenance III Year					
1	Cost of raising plants for 10% replacement	1 No.	60	50	3000.00
2	Reopening of Pits 50 x 0.60 x 0.60 x 0.40	1 m3	59.63	7.2	429.34
3	Refilling of pits with earth in other soils 50 x 0.60 x 0.60 x 0.40	1 m3	27.47	7.2	197.78
4	Loading & Unloading of Plants	1 No.	2.46	50	123.00
5	Carriage of Plants 50 avg. distance upto 10 km.)	500 No	196.2	1	196.20
6	Spreading of plants pit to pit	100 No	131.2	50	65.60
7	Re-planting to plants	100 No	229.08	50	114.54
8	Spot Irrigation	100 No.	205	50	102.50
9	Weeding & Hocking (Twice)	100 No	357.52	1500	5362.80
10	Hand Watering (5 times)	100 No	205	4000	8200.00
11	Rejungle Clearance (2 times)	Ha.	2378	1	2378.00
12	Stubbing of Kana	Ha.	26836	0.1	2683.60
13	Pruning to plants 20%	100 No.	387.61	100	387.61
14	Watch & Ward for every 10 Ha.	Man year	8528	1/10 Man yr.	8528.00
15	POL	L/s			5000.00
16	Material and supply	L/s			5000.00
				Sub Total	41768.97
Maintenance IV Year					

Surjit Singh Sahota

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Amritsar Forest Division
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1	Cost of raising plants for 5% replacement	1 No.	60	25	1500.00
2	Reopening of Pits 25 x 0.60 x 0.60 x 0.40	1 m3	59.63	3.6	214.67
3	Refilling of pits with earth in other soils 25 x 0.60 x 0.60 x 0.40	1 m3	27.47	3.6	98.89
4	Loading & Unloading of Plants	1 No.	2.46	25	61.50
5	Carriage of Plants - 150 avg. distance upto 10 km.)	500 No	196.2	1	196.20
6	Spreading of plants pit to pit	100 No	131.2	25	32.80
7	Re-planting to plants	100 No	229.08	25	57.27
8	Spot Irrigation	100 No.	205	25	51.25
9	Weeding & Hoing (Twice)	100 No	357.52	1500	5362.80
10	Rejungle Clearance (2 times)	Ha.	2378	1	2378.00
11	Pruning to plants 30%	100 No.	387.61	300	1162.83
12	Watch & Ward for every 10 Ha.	Man year	8528	1/10 Man yr.	8528.00
13	POL	L/s			5000.00
14	Material and supply	L/s			29644.21
				Sub Total	296667.96
	Over Head expenses 5%				14833.4
	Enhancement due to wage escalation @ 9%				26700.12
				G.Total	338201.47
				or Say	338201

Note The watch and ward in subsequent
Years will carry out the necessary
operations of Pruning
Total cost per Plant (in Rs) 676
Cost of 21x 3 =42 plants (Rs.) 28392
Area 0.084 HA


Divisional Forest Officer,
Sarjit Singh Samra
Amritsar Forest Division,
Amritsar
Amritsar Forest Officer
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Amritsar

- Cost of purchase of plants have been reduced from Rs 200 to Rs 60 per plant as plants of size 6-8 ft instead of 12ft are to be planted.
- Use of barbed wire has been eliminated as this plantation involves gap planting.
- Tree Guards will be used as per site requirements .
- The unit rates are as per the Department scheduled Rates.