

Diversion of 0.3207 ha of forest land for widening of road from Pathankot to Shahpur kandi road km 0.892 to 3.03 B/Side village Pangoli forest Division and District Pathankot In the state of Punjab. (By . Executive Engineer, Construction Division PWD B&R Br. Pathankot).
Proposal No :- FP/PB/ROAD/44784/2020

Estimated cost per ha of plantation					
			At wage rate 332.41		
			Plants Per Hectare : 1000 Nos.		
Sr. No.	Name of Work	Unit	New Unit Cost (in Rs.)	Qty.	New Amount
	Nursery				
	Nursery cost of raising plants	No.	14.24	1100	15664
A	Soil Work				
1	Site / Jungle Clearance (50%)	Ha.	5439.4	0.5	2719.7
2	Alignment & Dagbaling	Ha.	997.2	1	997.2
3	Earth works in Digging of Pits 1000 x 0.5 m x 0.5 m	100 m3	7856.9	100	7856.9
4	Digging of trench 500 x 2.50 x 0.30 x 0.20	100 m3	7856.9	75 M3	5892.67
5	Kana Stubbing 25%	Ha.	27197	0.25	6799.25
B	Plantation Work				
1	Refilling of Pits 1000x0.5mx0.5mx0.3	100 cum	2719.7	75	2039.775
2	Loading & Unloading of Plants (1000+10% Wastage)	100 No.	41.55	1100	457.05
3	Carriage of Plants	100 No.	199.4	1100	2193.4
4	i) Carriage from site to site	100 No.	12.15	1000	121.5
	ii) Planting of Plants (1000 No. including 10% replacement)	100 No.	362.6	1000	3626
5	Spot Irrigation (1000 Plants)	100 No.	299.15	1000	2991.5
6	Application of Insecticide (2 Times)	100 No.	41.55	2000	831
7	Application of Fertilizers (2 Times)	100 No.	41.55	2000	831
8	Weeding & Hoeing 3 Times	100 No.	362.6	3000	10878
9	Hand Watering (12 Times)	100 No.	299.15	12000	35898
10	Replanting of Plants 10%	100 No.	969	100	969
11	Rejungle Clearance (2 Times)	Per Ha.	2409.95	1	2409.95
12	Covering (25% plants) of plants	100 No.	299.15	250	747.875
13	Uncovering of plants (25 %)	100 No.	33.24	250	83.1
14	Re kana Restubbing (1 time)		8310.25	0.25	2077.5625

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15	Laying out & fixing of Barbed Wire	L/s			7872
16	Watch & Ward for every 10 Ha.	Man Year	8632	1 Man	8632
17	Reopening of trench	100 m3	6040	75 m3	4530
	i) Insecticides / Fertilizers	L/s			5000
	ii) POL and machinery Tools	L/s			5000
	iii) Barbed Wire & Pole	L/s			50000
	Sub Total				187118.4325

	Maintenance 1 Year				
1	Cost of raising plants for 30% replacement	No.	14.24	300	4272
2	Reopening of Pits 300 x 0.50 x 0.50 x 0.40	100 m3	6040	30	1812
3	Refilling of pits with earth in other soils 300 x 0.50	100 m3	2719.7	22.5	611.9325
4	Loading & Unloading of Plants	100 No.	41.55	300	124.65
5	Carriage of Plants (300+10% Wastage = 330 avg. d	100 No.	199.4	33	658.02
6	i) Carriage from site to site	100 No.	12.15	300	36.45
7	Re-Planting to plants	100 No.	362.6	300	1087.8
8	Spot Irrigation	100 No.	299.15	300	897.45
9	Weeding & Hoeing (Three)	100 No.	362.6	3000	10878
10	Application of Insecticide (2 Times)	100 No.	41.55	2000	831
11	Application of Fertilizers (2 Times)	100 No.	41.55	2000	831
12	Hand Watering (10 Times)	100 No.	299.15	10000	29915
13	Rejungle Clearance (2 Times)	Per Ha.	2409.95	1	2409.95
14	Restubbing of Kana	Per Ha.	8310.25	0.25	2077.5625
15	Watch & Ward for every 10 Ha.	Man Year	8632	1/10 Man	8632
16	Reopening of trench	100 m3	6040	75 m3	4530
17	Repair of Barbed Wire & Pole	L/s			5000
18	POL & Machinery Tools	L/s			5000
19	Material and Supply	L/s			5000
	Sub Total				84604.815

	2nd Year Maintenance				
1	Cost of raising plants for 15% replacement	No.	14.24	150	2136
2	Reopening of Pits 150 x 0.5 x 0.5 x 0.40	100 m3	6040	15	906
3	Refilling of pits with earth in other soils 150x 0.5 x	100 m3	2719.7	11.25	305.96625
4	Loading & Unloading of Plants	100 No.	41.55	150	62.325
5	Carriage of Plants Wastage = 150 avg. distance up	500 No.	199.4	150	299.1

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6	i) Carriage from site to site	100 No.	12.15	150	18.225
7	Re-Planting to plants	100 No.	362.6	150	543.9
8	Spot Irrigation	100 No.	299.15	150	448.725
9	Weeding & Hoeing (Twice)	100 No.	362.6	2000	7252
10	Hand Watering (7 Times)	100 No.	299.15	7000	20940.5
11	Rejungle Clearance (2 Times)	Per Ha.	2409.95	1	2409.95
12	Pruning to Plants (10%)	100 No.	302.1	100	302.1
13	Watch & Ward for every 10 Ha.	Man Year	8632	1/10 Man	8632
14	Reopening of trench	100 m3	6040	75 m3	4530
15	Repair of Barbed Wire & Pole	L/s			5000
16	POL & Machinery Tools	L/s			5000
17	Material and Supply	L/s			5000
	Sub Total				63786.79125
	3rd Year Maintenance				
1	Cost of raising plants for 10% replacement	No.	14.24	100	1424
2	Reopening of Pits 100 x 0.50 x 0.50 x 0.40	100 m3	6040	10	604
3	Refilling of pits with earth in other soils 100 x 0.50	100 m3	2719.7	7.5	203.9775
4	Loading & Unloading of Plants	100 No.	41.55	100	41.55
5	Carriage of Plants 100 avg. distance upto 10 Km.)	100 No.	199.4	100	199.4
6	i) Carriage from site to site	100 No.	12.15	100	12.15
7	Re-Planting to plants	100 No.	362.6	100	362.6
8	Spot Irrigation	100 No.	299.15	100	299.15
9	Weeding & Hoeing (twice)	100 No.	362.6	2000	7252
10	Hand Watering (5 Times)	100 No.	299.15	5000	14957.5
11	Pruning to Plants 20%	100 No.	302.1	200	604.2
12	Watch & Ward for every 10 Ha.	Man Year	8632	1/10 Man	8632
13	Reopening of trench	100 m3	6040	75 m3	4530
14	Repair of Barbed Wire & Pole	L/s			5000
15	POL & Machinery Tools	L/s			5000
16	Material and Supply	L/s			5000
	Sub Total				54122.5275
	4th Year Maintenance				
1	Cost of raising plants for 5% replacement	No.	14.24	50	712
2	Reopening of Pits 50 x 0.50 x 0.50 x 0.40	100 m3	60.4	5	3.02
3	Refilling of pits with earth in other soils 50 x 0.50 x	100 m3	2719.7	3.75	101.98875
4	Loading & Unloading of Plants	100 No.	41.55	50	20.775

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5	Carriage of Plants 50 avg. distance upto 10 Km.)	100 No.	199.4	50	99.7
6	i) Carriage from site to site	100 No.	12.15	50	6.075
7	Re-Planting to plants	100 No.	362.6	50	181.3
8	Spot Irrigation	100 No.	299.15	50	149.575
9	Weeding & Hoeing (twice)	100 No.	362.6	2000	7252
10	Hand Watering (4 Times)	100 No.	299.15	4000	11966
11	Pruning to Plants 30%	100 No.	302.1	300	906.3
12	Watch & Ward for every 10 Ha.	Man Year	8632	1/10 Man	8632
13	Reopening of trench	100 M3	6040	75 M3	4530
14	Repair of Barbed Wire & Pole	L/s			5000
15	POL & Machinery Tools	L/s			5000
16	Material and Supply	L/s			5000
	Sub Total				49560.73375
	5th Year Maintenance				
1	Watch & Ward for every 10 Ha.	Man Year	8632	1/10 Man	8632
	Sub Total				8632
	6th Year Maintenance				
1	Watch & Ward for every 10 Ha.	Man Year	8632	1/10 Man	8632
	Sub Total				8632
	7th Year Maintenance				
1	Watch & Ward for every 10 Ha.	Man Year	8632	1/10 Man	8632
	Sub Total				8632
	8th Year Maintenance				
1	Watch & Ward for every 10 Ha.	Man Year	8632	1/10 Man	8632
	Sub Total				8632
	9th Year Maintenance				
1	Watch & Ward for every 10 Ha.	Man Year	8632	1/10 Man	8632
	Sub Total				8632
	10th Year Maintenance				
1	Watch & Ward for every 10 Ha.	Man Year	8632	1/10 Man	8632
	Sub Total				8632
	Total				490985.3

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Over Head expenses 5%				24549.265
Wage Enhancement @ 10%				49098.53
G. Total				564633.095
Or Say				564633
Total cost of Compensatory Afforestation				
		Area(in hect	Cost per hect	Total Cost
Compensatory afforestation scheme $0.3207 \times 2500 =$				
802 Plants		0.802 ha	564633	452836
Net Present Value @ 887000/-per hect.	887000×0.3207			284461
				737297

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