

FP/PB/ROAD/143098/2021:- Diversion of Forest land 39.7656 ha. (30.510 ha. in Amritsar Division + 9.2556 in Jalandhar Division) of forest land for construction of 6 lane structures on NH-1 Section (Km 407+000 to Km 444+794) on Brownfield Amritsar Spur of Delhi-Amritsar-Katra Expressway in Kapurthala and Amritsar District of Punjab State

Net Present Value

Wage Rate: 381/-

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	21.59	23745.04
A	Soil Works				
1	Site /Jungle Clearance (50%)	Ha.	0.50	5792.95	2896.47
2	Alignment & Dagbailing	Ha.	1	1062.05	1062.05
3	Earth Work- (a) Digging of Pits 1000x 0.5m x0.5m x0.4m	1M ³	100	109.42	10942.15
4	Kana Stubbing 25%	Ha.	0.25	28964.63	7241.16
B	Plantation Work				
1	a) Refilling of Pits 1000 x 0.5m x0.5m x0.4m	100 cum	75	2964.89	2223.67
2	Loading & Unloading of Plants (1000+10% Wastage=1100)	100 No	1100	593.63	6529.89
3	Carriage of Plants (1000+10% Wastage=1100 avg. distance upto 10 km)	100 No	1100	212.41	2336.51
4	i) Carriage from site to site	100 No	1000	141.61	1416.07
	ii) Planting of Plants (1000 No Including 10% replacement)	100 No	1000	1062.05	10620.51
5	Spot Irrigation (1000 Plants)	100 No	1000	221.26	2212.61
6	Application of Insecticide (2 times)	100 No	1000	44.25	442.52
7	Application of Fertilizers (2 times)	100 No	1000	44.25	442.52
8	Weeding & Hoeing 3 times	100 No	3000	385.88	11576.36
9	Hand Watering (12 Times)	100 No	12000	221.26	26551.27
10	Replanting of Plants 10%	100 No	100	625.05	625.05
11	Rejungle Clearance (2 times)	Per Ha.	1	2566.62	2566.62
12	Covering (25% plants) of plants	100 No	250	318.62	796.54
13	Uncovering of plants	100 No	250	35.40	88.50
14	Restubbing of Kana (1 time)		0.25	28964.96	7241.24
15	Laying out & fixing of Barbed Wire	L/s			7872.00
16	Watch & Ward for every 10 Ha. (7 months)	Man year	1Man 7 Month	9204.44	9178.00
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		198606.75

Maintenance I Year					
1	Cost of raising plants for 30% replacement	1 No.	300	21.59	6475.92
2	Reopening of Pits 300 x 0.50 x 0.50 x 0.30	1 m3	21.60	64.36	1341.68
3	Refilling of pits with earth in other soils 300	1 m3	21.6	29.65	618.08
4	Loading & Unloading of Plants	1 No.	300	2.66	796.54
5	Carriage of Plants (300+10% Wastage=330 avg. distance upto 10 km.)	100 No	1	211.76	211.76
6	Spreading of plants pit to pit	100 No	165	141.61	233.65
7	Re-planting Tall Plants	100 No	165	355.18	586.05
8	Spot Irrigation	100 No.	165	221.26	365.08
9	Weeding & Hoeing (thrice)	100 No	3000	385.88	11576.36
10	App. Of Fertilizer (two times)	100 No	1000	44.25	442.52
11	App. Of Insecticide (two times)	100 No	1000	44.25	442.52
12	Hand watering (6 times)	100 No	6000	385.88	23152.71
13	Rejungle Clearance (2 times)	Per Ha.	1.00	2566.62	2566.62
14	Restubbing of Kana	Per Ha.	0.25	28964.63	7241.16
15	Watch & Ward for every 10 Ha. (10 months)	Man year	1/10 Man yr.	9204.44	9204.44
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		80255.10
Maintenance II Year					
1	Cost of raising plants for 15% replacement	No.	150	21.59	3237.96
2	Reopening of Pits 250 x 0.60 x 0.60 x 0.40	1 m3	21.6	64.36	644.00
3	Refilling of pits with earth in other soils 250 x 0.60 x 0.60 x 0.40	1 m3	21.6	29.65	296.68
4	Loading & Unloading of Plants	1 No.	75	2.66	199.13
5	Carriage of Plants = 75 avg. distance upto 10 km.)	100 No	1	211.76	211.76
6	Spreading of plants pit to pit	100 No	75	141.61	106.21
7	Re-planting to tall plants	100 No	75	247.26	185.45
8	Spot Irrigation	100 No.	75	221.26	165.95
9	Weeding & Hoeing (twice)	100 No	2000	385.88	7717.57
10	Hand Watering 5 Times	100 No	500	221.26	11063.03
11	Rejungle Clearance (2 times)	Per Ha.	1.00	2566.62	2566.62
12	Pruning to plants	100 No.	100	418.36	418.36
14	Watch & Ward for every 10 Ha.	Man year	1/10 Man yr.	9204.44	9204.44
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		51017.16

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Maintenance III Year					
1	Cost of raising plants for 10% replacement	1 No.	100	21.59	2158.64
2	Reopening of Pits 200 x 0.50 x 0.50 x 0.40	1 m3	10	6435.99	429.34
3	Refilling of pits with earth in other soils 100 x 0.60 x 0.60 x 0.40	1 m3	7.5	29.65	197.78
4	Loading & Unloading of Plants	1 No.	100	2.66	265.51
5	Carriage of Plants 200 avg. distance upto 10 km.)	100 No	100	1.08	107.93
6	Spreading of plants pit to pit	100 No	100	141.61	141.61
7	Re-planting to plants	100 No	100	247.26	247.26
8	Spot Irrigation	100 No.	100	221.26	221.26
9	Weeding & Hoeing (Twice)	100 No	2000	385.88	7717.57
10	Hand Watering (5 times)	100 No	5000	221.26	11063.03
11	Pruning to plants 20%	100 No.	200	418.36	836.71
12	Watch & Ward for every 10 Ha.	Man year	1/10 Man yr.	9204.44	9204.44
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		47591.09
Maintenance IV Year					
1	Cost of raising plants for 15% replacement	1 No.	50	21.59	1079.32
2	Reopening of Pits 50 x 0.50 x 0.50 x 0.40	1 m3	5	6435.99	429.34
3	Refilling of pits with earth in other soils 100 x 0.50 x 0.50 x 0.30	1 m3	3.75	29.65	197.78
4	Loading & Unloading of Plants	1 No.	50	2.66	132.76
5	Carriage of Plants = 150 avg. distance upto 10 km.)	100 No	50	1.08	53.97
6	Spreading of plants pit to pit	100 No	50	141.61	70.80
7	Re-planting to plants	100 No	50	247.26	123.63
8	Spot Irrigation	100 No.	50	221.26	110.63
9	Weeding & Hoeing (Twice)	100 No	2000	385.88	7717.57
10	Hand Watering (4 times)	100 No	4000	221.26	8850.42
11	Pruning to plants 30%	100 No.	300	418.36	1255.07
12	Watch & Ward for every 10 Ha.	Man year	1/10 Man yr.	9204.44	9204.44
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		44225.73
Maintenance V Year					
1	Watch and Ward every 10 ha. (10 Months)	Man Year	1/10 Man yr.	9204.44	9204.44
			Sub Total		9204.44
Maintenance VI Year					
1	Watch and Ward every 10 ha. (10 Months)	Man Year	1/10 Man yr.	9204.44	9204.44
			Sub Total		9204.44
Maintenance VII Year					
1	Watch and Ward every 10 ha. (10 Months)	Man Year	1/10 Man yr.	9204.44	9204.44
			Sub Total		9204.44

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Maintenance VIII Year					
1	Watch and Ward every 10 ha. (10 Months)	Man Year	1/10 Man yr.	9204.44	9204.44
			Sub Total		9204.44
Maintenance IX Year					
1	Watch and Ward every 10 ha. (10 Months)	Man Year	1/10 Man yr.	9204.44	9204.44
			Sub Total		9204.44
Maintenance X Year					
1	Watch and Ward every 10 ha. (10 Months)	Man Year	1/10 Man yr.	9204.44	9204.44
			Sub Total		9204.44
					476922.47
					23846.12
	Over Head expenses 5%				47692.25
	Wages Enhancement 10%				548460.84
			G.Total		548461.00
			Or Say		548461.00

Net present value as fixed by
Govt. for open area diverted @
Rs957780 lac per ha.

29221867.8

Total

29221868

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