

FP/PB/ROAD/143098/2021:- Diversion of Forest land 39.765ha. (30.51 ha. in Amritsar Division + 9.255ha in Jalandhar Division) for construction of 6 lane structures on NH01 Section (Km 407+000 to Km 444+794) on Brownfield Amritsar Spur of Delhi-Amritsar-Katra Expressway in Kapurthala and Amritsar District in the State of Punjab.

Additional CA

Cost Estimate for planting of Tall plants for Additional CA Rs. 368					
Name of Work		Unit	Unit Cost (In Rs.)	Qty	Total Amt
Nursery					
Nursery cost/ of raising plants (10% beating up of failure and 5% transportation wastage)		1 No	100.00	575	57500.00
A Soil Works					0.00
1	Site /Jungle Clearance (50%)	Ha.	6019.43	0.50	3009.72
2	Alignment & Dagbailing	Ha.	984.00	1	984.00
3	Earth Work- (a) Digging of Pits 500x 0.6m x0.6m x0.5m (Medium Soil)	1M3	86.99	90	7829.10
4	Kana Stubbing 25%	Ha.	30107.67	0.25	7526.92
Total Earth Work					76849.73
B Plantating					
1	a) Refilling of Pits 500* 60* 40	100 cum	30.10	72	2167.20
2	Loading & Unloading of Plants	100 No	2.46	500	1230.00
3	Carriage of Plants	100 No	196.80	1	196.80
4	i) Carriage from site to site	100 No	1.31	500	655.00
	ii) Planting of Plants	100 No	6.00	500	3000.00
5	Spot Irrigation (500 Plants)	100 No	5.00	500	2500.00
6	Application of Insecticide (2 times)	100 No	0.45	1000	450.00
7	Application of Fertilizers (2 times)	100 No	0.45	1000	450.00
8	Weeding & Hoeing 2 times	100 No	6.00	1000	6000.00

Harinder Singh
I.F.S.
Divisional Forest Officer
Amritsar Forest Division
Amritsar
Estimate for Tall Plants

Harjinder Singh
I.F.S.
Divisional Forest Officer
Amritsar Forest Division
Amritsar

9	Hand Water 12 Times	100 No	5.00	6000	30000.00
10	Replanting of Plants 10%	100 No	15.76	50	788.00
11	Refjungle Clearance (2 times)	Per Ha.	2665.37	1	2665.37
12	Covering (25% plants) of plants	100 No	3.31	125	413.75
13	Uncovering of plants	100 No	0.37	125	46.25
14	Restubbing of Kana (1 time)	Ha.	9200.00	0.25	2300.00
16	Watch & Ward for every 10 Ha. (7 months)	Man year	9568.00	1 Man 7	6697.00
Total					136409.10
Material and Supply 3% of Plantation Cost					4092.27
j) POL and Machinery 2% of Plantation Cost					2728.18
ii) Other Charges 5% of plantation Cost					6820.46
Total material Supply					13640.91
G. Total					150050.01
Maintenance 1 Year					
1	Nursery cost raising plants 25% (including 5% transportation wastage)	No.	100	131	13100.00
2	Reopening of Pits 125 x 0.60 x 0.50	1 m3	66.91	22.50	1505.48
3	Refilling of pits with earth in other soils 125 x 0.60	1 m3	30.1	18	541.80
4	Loading & Unloading of Plants	1 No.	2.46	125	307.50
5	Carriage of Plants	No	500	1	500.00
6	Spreading of plants pit to pit	No	1.31	125	163.75
7	Planting Tail Plants	No	6	125	750.00
8	Spot Irrigation	No	5	125	625.00
9	Weeding & Hoeing (Twice)	No	6.0	1000	6000.00
10	App. Of Fertilizer (two times)	No	0.45	1000	450.00
11	App. Of Insecticide (two times)	No	0.45	1000	450.00
12	Hand Water 12 Times	No	6.62	6000	39720.00
13	Refjungle Clearance (2 times)	Ha.	2665.37	1.00	2665.37
14	Restubbing of Kana	Ha.	9200	0.25	2300.00

50

1	Nursery cost / raising plants 15% (including 5% transportation wastage)	No.	100	79	7900.00
2	Reopening of pits 75 x 0.60 x 0.50	1 m3	66.86	13.5	902.61
3	Refilling of pits with earth in other soils 75 x 0.60	1 m3	30.1	10.8	325.08
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	1 No.	1.31	75	98.25
7	Planting to tall plants	1 No.	6	75	450.00
8	Spot Irrigation	1 No.	5	75	375.00
9	Weeding & Hoeing	1 No.	6	500	3000.00
10	Hand Watering 18 Times 75*12	1 No.	5	900	4500.00
11	Rejungle Clearance (2 times)	Ha.	2665.37	1.00	2665.37
13	Singling and Pruning to plants 50%	1 No.	3.37	250	842.50
14	Watch & Ward for every 10 Ha.	Man/year	9528	1/10 Man yr.	9528.00
	Total				30967.51
	Material and Supply 3% of Plantation Cost	L/s			929.03
	i) POL and Machinery 2% of Plantation Cost	L/s			619.35
	ii) Other Charges 5% of plantation Cost				1548.38
	Total				3096.76
	Total 2nd year Mtc.				34064.27
Maintenance II Year					
1	Nursery cost / raising plants 15% (including 5% transportation wastage)	No.	100	79	7900.00
2	Reopening of Pits 75 x 0.60 x 0.50	1 m3	66.86	13.5	902.61
3	Refilling of pits with earth in other soils 75 x 0.60	1 m3	30.1	10.8	325.08
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	1 No.	1.31	75	98.25
7	Planting to tall plants	1 No.	6	75	450.00
8	Spot Irrigation	1 No.	5	75	375.00
9	Weeding & Hoeing	1 No.	6	500	3000.00
10	Hand Watering 18 Times 75*12	1 No.	5	900	4500.00
11	Rejungle Clearance (2 times)	Ha.	2665.37	1.00	2665.37
13	Singling and Pruning to plants 50%	1 No.	3.37	250	842.50
14	Watch & Ward for every 10 Ha.	Man year	9528	1/10 Man yr.	9528.00
	Total				79449.40
	Material and Supply 3% of Plantation Cost				2383.48
	i) POL and Machinery 2% of Plantation Cost	L/s			1588.99
	ii) Other Charges 5% of plantation Cost	L/s			3972.47
	Total				7944.94
	Total First year Mtc.				87394.34
Maintenance III Year					
1	Nursery cost / raising plants 10% (including 5% transportation wastage)	1 No.	100	53	5300.00
Total					

1. This is an indicative cost model for Additional CA plantations which can be modified in a site specific manner as per site requirements. While formulating Additional CA schemes for FCA cases other site specific interventions can be incorporated.

2. For protection of plantation, site specific interventions i.e. Tree guards/ barbed wire can be incorporated and its cost is to be realised from user agency.

3. By remaining with in the total annual financial outlay operations can be changed in a site specific manner after recording reasons in writing by DFO after his personal site inspection.

4. In exceptional cases if site treatment requires some additional expenditure it shall involve a prior approval from competent authority after personal inspection and certificate by DFO along with recommendation from CF.

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Total cost per Plant (in Rs)
Cost of 30306x 2 = 6060 plants (Rs.)
4151100
685

2	Reopening of Pits 50 x 0.60 x 0.60 x 0.50	1 m3	66.86	9	601.74
3	Refilling of pits 50 x 0.60 x 0.60 x 0.40	1 m3	30.10	7.2	216.72
4	Loading & Unloading of Plants	1 No.	2.46	50	123.00
5	Carriage of Plants 50 avg. distance upto 10 km.)	1 No.	196.2	1	196.20
6	Spreading of plants pit to pit	1 No.	1.31	50	65.50
7	Planting to plants	1 No.	6	50	300.00
8	Spot Irrigation	1 No.	5	50	250.00
C	Maintenance				
1	One man per 10 hac. For tending operations like singling and pruning, Weeding, hand watering etc. as per site requirements and simultaneous protection work	No.	1	9568	9568.00
	4th year Maintenance				
	Total 3rd year Mtc.				16621.16
	G. Total				297697.77
	Entry Point Activities 15% of plantation cost to be realised from user agency (only for CA)				44654.67
	G.Total				342352.43
	OR Say				342400