

Compensatory Afforestation Scheme with 10 years mtc. for diversion of 0.440 Ha. of forest land in favour of Punjab PWD B&R for construction of Single Span (4-laned) 135m long Steel Bridge on Phagwara-Banga-Nawanshahar-Ropar at RD Km. 86.900 on Sirhind Canal on NH-344A including approaches in Ropar City under Rupnagar Forest Division & Distt Rupnagar (Punjab).


1) Diverted Forest Area = 0.44 Ha	4) Site of CA :	Fatehpur			
2) Proposed C.A. Area = 1.10 Ha	5) Species will be planted = Shisham, Khair, Kikar, Jamun, Bahera and Other Misc.				
3) No. of plants to be planted = 1100 Plants	No. of Plants to be planted in 1 Ha: 1000				
Estimate for planting					
Daily Wage Rate : 385/-					
Sr. No.	Name of Work	Unit	unit cost (in Rs.)	Qty	Total amount
	Nursery				
1	Cost of Plants	1 No	20.00	1,100	22,000
	Earth Work				
2	Site /Jungle Clearance (60%)	Ha.	6299.93	0.60	3,780
3	Alignment & Dagbailing	Ha.	1155	1.00	1,155
4	Earth Work- Digging of Pits 1000 x 0.5m x 0.5m x 0.4m Heavy Soil	1M ³	119	100	11,900
5	Kana Stubbing 40%	Ha.	31500	0.40	12,600
	Planting				
6	Refilling of Pits 1000 x 0.5m x 0.5m x 0.3m	100 cum	3224.37	75	2,418
7	Loading of Plants (1000+10% Wastage=1100)	100 No	28.87	1,100	318
8	Carriage of P. Bags in trolley from nursery to plantation site (1100 plants= 1 trolley) (for 10 Km)	1 trolley for 10 kms	2887.50	1.00	2,888
9	Unloading of Plants (1000+10% Wastage=1100)	100 No	19.25	1,100	212
10	Carriage of Plants (1100+10% Wastage=1100 above 50 m distance)	100 No	24.06	1,100	265
11	Loading of FYM / Vermicompost	1 trolley	385	0.10	39
12	Carriage of Vermicompost (10 kms)	1 trolley	1925	0.10	193
13	Unloading of FYM / Vermicompost	1 trolley	192.5	0.10	19
14	Planting of Plants (1000 No Including 10% replacement)	100 No	490	1,100	5,390
15	Spot Irrigation (1000 Plants)	100 No	385	1,000	3,850
16	Application of Insecticide (2 times)	100 No	67.37	2,000	1,347
17	Application of Fertilizers (2 times)	100 No	67.37	2,000	1,347
18	Weeding & Hoeing 3 times	100 No	419.65	3,000	12,590
19	Replanting of Plants 10%	100 No	490	100	490
20	Rejungle Clearance (2 times)	Per Ha.	6299.94	1.20	7,560
21	Restubbing of Kana (1 time)	Ha.	31500	0.40	12,600
22	Watch & Ward for every 10 Ha. (7 months)	Man year	119664	1Man 7 Month	6,980
23	Material				
	i) Insecticides/Fertilizers	L/s			6,000
	ii) Vermicompost	L/s			3,000
	iii) POL	L/s			7,000


Sr. No.	Name of Work	Unit	unit cost (in Rs.)	Qty	Total amount
24	properation of I / path	Mtr.	9,723.00	50	4,862
25	Cutting of latana malah	Ha.	7,000.00	1	3,500
26	Cutting of tall weeds	Rmt.	9,625.00	50	4,813
27	padding of plants	No.	192.50	50	96
				Sub Total	1,39,210
Maintenance I Year					
				300	6,000
1	Cost of plants for 30% replacement	1 No.	20.00		
2	Reopening of Pits 300 x 0.5m x 0.5m x 0.4m	1 m3	69.99	30.00	2,100
3	Refilling of Pits with earth in other soils 300 x 0.5m x 0.5m x 0.3m	1 m3	32.24	22.50	725
4	Loading & Unloading of Plants	100 No.	48.13	330	159
5	Carriage of Plants (300+10% Wastage=330 avg. distance upto 10 km.)	1000 No	2,887.50	330	953
6	Spreading of plants pit to pit	100 No	24.06	300	72
7	Re-planting of Plants	100 No	490.00	330	1,617
8	Spot Irrigation	100 No.	385.00	300	1,155
9	Weeding & Hoeing (thrice)	100 No	419.65	3,000	12,590
10	App. Of Fertilizer (two times)	100 No	67.38	2,000	1,348
11	App. Of Insecticide (two times)	100 No	67.38	2,000	1,348
12	Rejungle Clearance (2 times)	Ha.	6,299.94	1.20	7,560
13	Restubbing of Kana	Ha.	31,500.00	0.40	12,600
14	Watch & Ward for every 10 Ha.	Man year	1,19,664.00	1 Man Year	11,966
15	POL	L/s			6,000
16	Material and supply	L/s			6,000
17	Properation of I / path	Mtr.	9,723.00	50	4,862
18	Recutting of latana malah	Ha.	7,000.00	1	3,500
19	Cutting of tall weeds	Rmt.	9,625.00	50	4,813
20	padding of plants	No.	192.50	50	96
				Sub Total	85,462
Maintenance II Year					
				150	
1	Cost of plants for 15% replacement	No.	20.00		
2	Reopening of Pits 150 x 0.5m x 0.5m x 0.4m	1 m3	69.99	15.00	3,000
3	Refilling of Pits with earth in other soils 150 x 0.5m x 0.5m x 0.3m	1 m3	32.24	11.25	1,050
4	Loading & Unloading of Plants	100 No.	48.13	165	363
5	Carriage of Plants (No. of plants = 150 avg. distance upto 10 km.)	1000 No	2,887.50	165	79
6	Spreading of plants pit to pit	100 No	24.06	165	476
7	Re-planting of Plants	100 No	490.00	165	36
8	Spot Irrigation	100 No.	385.00	165	809
9	Weeding & Hoeing (2 times)	100 No	419.65	150	578
10	Rejungle Clearance (2 times)	Ha.	6,299.94	2,000	8,393
11	Stubbing of Kana	Ha.	31,500.00	1.20	7,560
				0.40	12,600

Sr. No.	Name of Work	Unit	unit cost (in Rs.)	Qty	Total amount
12	Pruning of plants	100 No.	98.00	1,000	980
13	Watch & Ward for every 10 Ha.	Man year	1,19,664.00	1 Man Year	11,966
14	POL	L/s			6,000
15	Material and supply	L/s			6,000
16	properation of I / path	Mtr.	9,723.00	50	4,862
17	Recutting of latana malah	Ha.	7,000.00	1	3,500
18	Cutting of tall weeds	Rmt.	9,625.00	50	4,813
19	padding of plants	No.	192.50	50	96
				Sub Total	73,160
hance III Year					
1	Cost of plants for 10% replacement	No.	20.00	100	2,000
2	Reopening of Pits 100 x 0.5m x 0.5m x 0.4m	1 m3	69.99	10.00	700
3	Refilling of Pits with earth in other soils 100 x 0.5m x 0.5m x 0.3m	1 m3	32.24	7.50	242
4	Loading & Unloading of Plants	100 No.	48.13	110	53
5	Carriage of Plants (No. of plants = 100 avg. distance upto 10 km.)	1000 No	2,887.50	110	318
6	Spreading of plants pit to pit	100 No	24.06	100	24
7	Re-planting of Plants	100 No	490.00	110	539
8	Spot Irrigation	100 No.	385.00	100	385
9	Weeding & Hoeing (2 times)	100 No	419.65	2,000	8,393
10	Rejungle Clearance (2 times)	Ha.	6,299.94	1.20	7,560
11	Stubbing of Kana	Ha.	31,500.00	0.40	12,600
12	Pruning of plants	100 No.	98.00	1,000	980
13	Watch & Ward for every 10 Ha.	Man year	1,19,664.00	1 Man Year	11,966
14	POL	L/s			6,000
15	Material and supply	L/s			6,000
16	properation of I / path	Mtr.	9,723.00	50	4,862
17	Recutting of latana malah	Ha.	7,000.00	1	3,500
18	Cutting of tall weeds	Rmt.	9,625.00	50	4,813
19	padding of plants	No.	192.50	50	96
				Sub Total	71,030
hance IV Year					
1	Cost of plants for 5% replacement	No.	20.00	50	1,000
2	Reopening of Pits 50 x 0.5m x 0.5m x 0.3m	1 m3	69.99	5.00	350
3	Refilling of Pits with earth in other soils 0.5m x 0.5m x 0.3m	1 m3	32.24	3.75	121
4	Loading & Unloading of Plants	100 No.	48.13	55	26
5	Carriage of Plants (No. of plants = 50 avg. distance upto 10 km.)	1000 No	2,887.50	55	159
6	Spreading of plants pit to pit	100 No	24.06	50	12
7	Re-planting of Plants	100 No	490.00	50	270
8	Spot Irrigation	100 No.	385.00	50	193
9	Weeding & Hoeing (2 times)	100 No	419.65	2,000	8,393
10	Rejungle Clearance (2 times)	Ha.	6,299.94	1.20	7,560

Sr. No.	Name of Work	Unit	unit cost (In Rs.)	Qty	Total amount
11	Pruning of plants	100 No.	98.00	1,000	980
12	Watch & Ward for every 10 Ha.	Man year	1,19,664.00	1 Man Year	11,966
13	POL	L/s			6,000
14	Material and supply	L/s			6,000
15	properation of I / path	Mtr.	9,723.00	50	4,862
16	Recutting of latana malah	Ha.	7,000.00	1	3,500
17	Cutting of tall weeds	Rmt.	9,625.00	50	4,813
18	padding of plants	No.	192.50	50	96
				Sub Total	56,300
Maintenance V Year					
1	Watch & Ward for every 10 Ha.	Man year	1,19,664.00	1 Man Year	11,966
				Sub Total	11,966
Maintenance VI Year					
1	Watch & Ward for every 10 Ha.	Man year	1,19,664.00	1 Man Year	11,966
				Sub Total	11,966
Maintenance VII Year					
1	Watch & Ward for every 10 Ha.	Man year	1,19,664.00	1 Man Year	11,966
				Sub Total	11,966
Maintenance VIII Year					
1	Watch & Ward for every 10 Ha.	Man year	1,19,664.00	1 Man Year	11,966
				Sub Total	11,966
Maintenance IX Year					
1	Watch & Ward for every 10 Ha.	Man year	1,19,664.00	1 Man Year	11,966
				Sub Total	11,966
Maintenance X Year					
1	Watch & Ward for every 10 Ha.	Man year	1,19,664.00	1 Man Year	11,966
				Sub Total	11,966
				TOTAL	4,96,960
	Over Head expenses 5%				24,848.01
	Enhancement due to wage escalation @10%				49,696.02
				G.Total	5,71,504
				Or Say	5,71,000
Note:- The watch and ward after 5 years will carry out the necessary operations of Pruning.					
	Total Cost per plant (In Rs)		571.00		
	Total Cost of Plantation of 1100 Plants	1 Plant	571.00	1,100	6,28,100

Sr. No.	Name of Work	Unit	unit cost (in Rs.)	Qty	Total amount
Protection Measures					
	Barbed Wire Fencing				
1	Cost of Barbed Wire (4 Line) 700 x 4 = 2800 Rmt	Per Rmt	175.00	2,800	4,90,000
2	Cost of Pillars (4 Nos Hock)	Nos	550.00	233	1,28,150
3	Cost of fixing charges of pillars	Nos	75.00	233	17,475
	Total Expenditure on Protection Measures				6,35,625
Entry Point Activities 10 %					
1	Livelihood trainings with equipment's (cutting and tailoring/ Net Ware, awarness camp)	L/s	-	-	53,000
	Total Expenditure on Protection Measures				53,000
Grand Total of CA Scheme for 0.44 Ha					13,16,725
	Cost of Forest Land (NPV)	1 Ha	12,28,590	0.44	5,40,580.00
					18,57,305.00


 डी. जे. अहिर,
 रुपनगर।


 Divisional Forest Officer,
 Rupnagar.