

Compensatory Afforestation Scheme with 10 years mtc. for diversion of 0.938 Ha. (0.778 Ha. area closed u/s 4/5 of PLPA, 1900 + 0.139 Ha. area delisted from PLPA, 1900 + 0.0207 Ha. PF area of AHC) of forest land in favour of Executive Engineer, Rupnagar Head Works, Rupnagar, Water Resources Department, Punjab for construction of Jeowal-Bhatoli- Baruwal-Massewal- Majher-Chikna- Nard Lift Irrigation Scheme, Falling within the jurisdiction of Forest Division and Distt. Rupnagar (Punjab).

1) Diverted Forest Area = 0.938 Ha	4) Site of CA : Raipur Forest
2) Proposed C.A. Area = 2.345 Ha	5) Species will be planted = Kikar, Shisham, Drek, Mulberry, Rajain and Other Misc.
3) No. of plants to be planted = 2345 Plants	No. of Plants to be planted in 1 Ha: 1000

Estimate for Planting

Daily Wage Rate : 368/-

Sr. No.	Name of Work	Unit	Unit Cost (In Rs.)	Qty	Total Amt
	Nursery				
1	Cost of Plants	1 No	15.00	1,100	16,500
	Earth Work				
2	Site /Jungle Clearance (60%)	Ha.	6,021.76	0.60	3,613
3	Alignment & Dagbailing	Ha.	1,104.00	1.00	1,104
4	Earth Work- Digging of Trenches 1000 x 2m x 0.35m x 0.3m Heavy Soil	1M ³	113.74	210	23,886
5	Kana Stubbing 40%	Ha.	30,109.02	0.40	12,044
	Planting				
6	Refilling of Trenches	100 cum	3,082.00	210	6,472
7	Loading of Plants (1000+10% Wastage=1100)	100 No	27.60	1,100	304
8	Carriage of P. Bags in trolley from nursery to plantation site (1100 plants= 1 trolley) (for 10 Km)	1 trolley for 10 kms	2,760.00	1.00	2,760
9	Unloading of Plants (1000+10% Wastage=1100)	100 No	18.40	1,100	202
10	Carriage of Plants (1100+10% Wastage=1100 above 50 m distance)	100 No	23.00	1,100	253
11	Loading of FYM / Vermicompost	1 trolley	368.00	0.10	37
12	Carriage of Vermicompost (10 kms)	1 trolley	1,840.00	0.10	184
13	Unloading of FYM / Vermicompost	1 trolley	184.00	0.10	18
14	Planting of Plants (1000 No Including 10% replacement)	100 No	468.36	1,100	5,152
15	Spot Irrigation (1000 Plants)	100 No	368.00	1,000	3,680
16	Application of Insecticide (2 times)	100 No	64.40	2,000	1,288
17	Application of Fertilizers (2 times)	100 No	64.40	2,000	1,288
18	Weeding & Hoeing 3 times	100 No	401.12	3,000	12,034
19	Replanting of Plants 10%	100 No	468.36	100	468
20	Rejungle Clearance (2 times)	Per Ha.	6,021.76	1.20	7,226
21	Restubbing of Kana (1 time)	Ha.	30,109.02	0.40	12,044
22	Watch & Ward for every 10 Ha. (7 months)	Man year	1,14,816.00	1Man 7 Month	6,698
	Material				
23	i) Insecticides/Fertilizers	L/s			10,000
24	ii) Vermicompost	L/s			2,500
25	iii) POL	L/s			10,000
				Sub Total	1,39,754

Maintenance I Year

1	Cost of plants for 30% replacement	1 No.	15.00	300	4,500
2	Reopening of Trenches 300 x 0.35m x 0.35m x 0.3m Heavy Soil	1 m3	66.90	11.02	737
3	Refilling of trenches with earth in other soils 300 x 0.35m x 0.35m x 0.3m	1 m3	30.82	11.02	340
4	Loading & Unloading of Plants	100 No.	46.00	330	152
5	Carriage of Plants (300+10% Wastage=330 avg. distance upto 10 km.)	1000 No	2,760.00	330	911
6	Spreading of plants pit to pit	100 No	23.00	300	69
7	Re-planting of Plants	100 No	468.36	330	1,546
8	Spot Irrigation	100 No.	368.00	300	368
9	Weeding & Hoeing (thrice)	100 No	401.12	3,000	12,034
10	App. Of Fertilizer (two times)	100 No	64.40	2,000	1,288
11	App. Of Insecticide (two times)	100 No	64.40	2,000	1,288
12	Rejungle Clearance (2 times)	Ha.	6,021.76	1.20	7,226
13	Restubbing of Kana	Ha.	30,109.02	0.40	12,044
14	Watch & Ward for every 10 Ha.	Man year	1,14,816.00	1 Man Year	11,482
15	POL	L/s			5,000
16	Material and supply	L/s			5,000
				Sub Total	63,983

Maintenance II Year

1	Cost of plants for 15% replacement	No.	15.00	150	2,250
2	Reopening of Trenches 150 x 0.35m x 0.35m x 0.3m Heavy Soil	1 m3	66.90	5.51	369
3	Refilling of trenches with earth in other soils 150 x 0.35m x 0.35m x 0.3m	1 m3	30.82	5.51	170
4	Loading & Unloading of Plants	100 No.	46.00	165	76
5	Carriage of Plants (No. of plants = 150 avg. distance upto 10 km.)	1000 No	2,760.00	165	455
6	Spreading of plants pit to pit	100 No	23.00	150	35
7	Re-planting of Plants	100 No	468.36	165	773
8	Spot Irrigation	100 No.	368.00	150	368
9	Weeding & Hoeing (2 times)	100 No	401.12	2,000	8,022
10	Rejungle Clearance (2 times)	Ha.	6,021.76	1.20	7,226
11	Stubbing of Kana	Ha.	30,109.02	0.40	12,044
12	Pruning of plants	100 No.	93.67	1,000	937
13	Watch & Ward for every 10 Ha.	Man year	1,14,816.00	1 Man Year	11,482
14	POL	L/s			5,000
15	Material and supply	L/s			5,000
				Sub Total	54,205

Maintenance III Year

1	Cost of plants for 10% replacement	No.	15.00	100	1,500
2	Reopening of Trenches 100 x 0.35m x 0.35m x 0.3m Heavy Soil	1 m3	66.90	3.67	246
3	Refilling of trenches with earth in other soils 100 x 0.35m x 0.35m x 0.3m	1 m3	30.82	3.67	113
4	Loading & Unloading of Plants	100 No.	46.00	110	51
5	Carriage of Plants (No. of plants = 100 avg. distance upto 10 km.)	1000 No	2,760.00	110	304
6	Spreading of plants pit to pit	100 No	23.00	100	23
7	Re-planting of Plants	100 No	468.36	110	515
8	Spot Irrigation	100 No.	368.00	100	368
9	Weeding & Hoeing (2 times)	100 No	401.12	2,000	8,022
10	Rejungle Clearance (2 times)	Ha.	6,021.76	1.20	7,226
11	Stubbing of Kana	Ha.	30,109.02	0.40	12,044
12	Pruning of plants	100 No.	93.67	1,000	937
13	Watch & Ward for every 10 Ha.	Man year	1,14,816.00	1 Man Year	11,482
14	POL	L/s			5,000
15	Material and supply	L/s			5,000
				Sub Total	52,830

Maintenance IV Year

1	Cost of plants for 5% replacement	No.	15.00	50	750
2	Reopening of Trenches 50 x 0.35m x 0.35m x 0.3m Heavy Soil	1 m3	66.90	1.84	123
3	Refilling of trenches with earth in other soils 50 x 0.35m x 0.35m x 0.3m	1 m3	30.82	1.84	57
4	Loading & Unloading of Plants	100 No.	46.00	55	25
5	Carriage of Plants (No. of plants = 50 avg. distance upto 10 km.)	1000 No	2,760.00	55	152
6	Spreading of plants pit to pit	100 No	23.00	50	12
7	Re-planting of Plants	100 No	468.36	55	258
8	Spot Irrigation	100 No.	368.00	50	184
9	Weeding & Hoeing (2 times)	100 No	401.12	2,000	8,022
10	Rejungle Clearance (2 times)	Ha.	6,021.76	1.20	7,226
11	Pruning of plants	100 No.	93.67	1,000	937
12	Watch & Ward for every 10 Ha.	Man year	1,14,816.00	1 Man Year	11,482
13	POL	L/s			5,000
14	Material and supply	L/s			5,000
				Sub Total	39,226

Maintenance V Year

1	Watch & Ward for every 10 Ha.	Man year	1,14,816.00	1 Man Year	11,482
				Sub Total	11,482

Maintenance VI Year

1	Watch & Ward for every 10 Ha.	Man year	1,14,816.00	1 Man Year	11,482
				Sub Total	11,482

Maintenance VII Year

1	Watch & Ward for every 10 Ha.	Man year	1,14,816.00	1 Man Year	11,482
				Sub Total	11,482

Maintenance VIII Year

1	Watch & Ward for every 10 Ha.	Man year	1,14,816.00	1 Man Year	11,482
				Sub Total	11,482

Maintenance IX Year					
1	Watch & Ward for every 10 Ha.	Man year	1,14,816.00	1 Man Year	11,482
				Sub Total	11,482
Maintenance X Year					
1	Watch & Ward for every 10 Ha.	Man year	1,14,816.00	1 Man Year	11,482
				Sub Total	11,482
				TOTAL	4,18,889
	Over Head expenses 5%				20,944
	Enhancement due to wage escalation @10%				41,889
				G.Total	4,81,722
				Or Say	4,82,000
Note:- The watch and ward after 5 years will carry out the necessary operations of Pruning.					
	Total Cost per plant (in Rs)		482.00		
	Total Cost of Plantation of 2345 Plants	1 Plant	482.00	2,345	11,30,290
Protection Measures					
1	Barbed Wire Fencing	L/s			2,00,000
	Total Expenditure on Protection Measures				2,00,000
Entry Point Activities					
1	Livelihood trainings with equipment's (cutting and tailoring/NetWare etc) at village- Jeowal, Bhatoli, Baruwai, - Massewal-Majher-Chikna and Nard	L/s			3,00,000
	Total Expenditure on Protection Measures				3,00,000
Grand Total of CA Scheme for 2.345 Ha					16,30,290
	Cost of Forest Land (NPV)	1 Ha	8,87,000	0.938	8,32,006
Final Total (including cost of NPV)					24,62,296

Amul
AMIT CHAUHAN IFS
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c/s

[Signature]
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