

Diversion of 0.3951 ha of forest land for construction of 4 lane Road Bhagtwala Bypass with Railway under Bridge (RUB) in Amritsar City by Improvement Trust, Tehsil & District Amritsar.

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SCHEME FOR COMPENSATORY AFFORESTATION

Details scheme for compensatory afforestation to be carried out in lieu of 0.3951 ha. of forest area to be diverted for construction of 4 lane Road Bhagtwala Bypass with Railway under Bridge (RUB) in Amritsar City by Improvement Trust, Tehsil & District Amritsar.

1. Detail of degrade forest land /non-forest land

District: Amritsar Village: ..Ramdas & Shahzada....

Teh... Ajnala.

Name of forest division Amritsar. Range: . Ajnala...

Block no./compartment /survey no., Ramdas-Kamalpur Road Km 0 to5 B/S

Area to be afforested:... :-CA=0.7902 HA+ADD CA=0.008 HA

. Description of Area

1. Whether the site selected for compensatory afforestation is a land bank or not Land Bank
2. If the CA site is other than the land bank, reason be given...N.A.
3. In case of non forest area identified for CA then what is the distance of CA site for the adjoining forest boundary ...N.A......
4. Soil type Medium
5. topography :-
 - a. hilly/undulating/plain
 - b. slope:-steep/medium/gentle x
6. Whether the area is bearing any root stock of vegetarian ...No.....

3. Plantation model :

Copy of the approval compensatory afforestation scheme /modal showing component wise physical and financial break up to be enclosed.


Surjit Singh Sahota
I.F.S.
Divisional Forest Officer
Amritsar Forest Division
Amritsar

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C.A Scheme

Wage Rate: 328/-

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	20.00	22000.00
A	Soil Works				
1	Site /Jungle Clearance (50%)	Ha.	0.50	5367.22	2683.61
2	Alignment & Dagbailing	Ha.	1	984.00	984.00
3	Earth Work- (a) Digging of Pits 1000x 0.5m x0.5m x0.4m	1M ³	100	101.38	10138.00
4	Kana Stubbing 25%	Ha.	0.25	26836.00	6709.00
B	Plantation Work				
1	a) Refilling of Pits 1000 x 0.5m x0.5m x0.4m	100 cum	75	2747.00	2060.25
2	Loading & Unloading of Plants (1000+10% Wastage=1100)	100 No	1100	550.00	6050.00
3	Carriage of Plants (1000+10% Wastage=1100 avg. distance upto 10 km)	100 No	1100	196.80	2164.80
4	i) Carriage from site to site	100 No	1000	131.20	1312.00
	ii) Planting of Plants (1000 No Including 10% replacement)	100 No	1000	984.00	9840.00
5	Spot Irrigation (1000 Plants)	100 No	1000	205.00	2050.00
6	Application of Insecticide (2 times)	100 No	1000	41.00	410.00
7	Application of Fertilizers (2 times)	100 No	1000	41.00	410.00
8	Weeding & Hoeing 3 times	100 No	3000	357.52	10725.60
9	Hand Watering (12 Times)	100 No	12000	205.00	24600.00
10	Replanting of Plants 10%	100 No	100	579.11	579.11
11	Rejungle Clearance (2 times)	Per Ha.	1	2378.00	2378.00
12	Covering (25% plants) of plants	100 No	250	295.20	738.00
13	Uncovering of plants	100 No	250	32.80	82.00
14	Restubbing of Kana (1 time)		0.25	26836.30	6709.08
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	8528.00	5969.60
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		186465.05

Maintenance I Year

1	Cost of raising plants for 30% replacement	1 No.	300	20.00	6000.00
2	Reopening of Pits 300 x 0.50 x 0.50 x 0.30	1 m3	21.60	59.63	1341.68
3	Refilling of pits with earth in other soils 300	1 m3	21.6	27.47	618.08
4	Loading & Unloading of Plants	1 No.	300	2.46	738.00
5	Carriage of Plants (300+10% Wastage=330 avg. distance upto 10 km.)	100 No	1	196.20	196.20
6	Spreading of plants pit to pit	100 No	165	131.20	216.48
7	Re-planting Tall Plants	100 No	165	329.08	542.98
8	Spot Irrigation	100 No.	165	205.00	338.25
9	Weeding & Hoeing (thrice)	100 No	3000	357.52	10725.60
10	App. Of Fertilizer (two times)	100 No	1000	41.00	410.00
11	App. Of Insecticide (two times)	100 No	1000	41.00	410.00
12	Hand watering (6 times)	100 No	6000	357.52	21451.20
13	Rejungle Clearance (2 times)	Per Ha.	1.00	2378.00	2378.00
14	Restubbing of Kana	Per Ha.	0.25	26836.00	6709.00
15	Watch & Ward for every 10 Ha. (10 months)	Man year	1/10 Man yr.	8528.00	5969.60
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		73045.07

Maintenance II Year

1	Cost of raising plants for 15% replacement	No.	150	20.00	3000.00
2	Reopening of Pits 250 x 0.60 x 0.60 x 0.40	1 m3	21.6	59.63	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	27.47	296.68
4	Loading & Unloading of Plants	1 No.	75	2.46	184.50
5	Carriage of Plants = 75 avg. distance upto 10 km.)	100 No	1	196.20	196.20
6	Spreading of plants pit to pit	100 No	75	131.20	98.40
7	Re-planting to tall plants	100 No	75	229.09	171.82
8	Spot Irrigation	100 No.	75	205.00	153.75
9	Weeding & Hoeing (twice)	100 No	2000	357.52	7150.40
10	Hand Watering 5 Times	100 No	500	205.00	10250.00
11	Rejungle Clearance (2 times)	Per Ha.	1.00	2378.00	2378.00
12	Pruning to plants	100 No.	100	387.61	387.61
14	Watch & Ward for every 10 Ha.	Man year	1/10 Man yr.	8528.00	5969.60
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		45880.96

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Maintenance III Year					
1	Cost of raising plants for 10% replacement	1 No.	100	20.00	2000.00
2	Reopening of Pits 200 x 0.50 x 0.50 x 0.40	1 m3	10	5963.00	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	27.47	197.78
4	Loading & Unloading of Plants	1 No.	100	2.46	246.00
5	Carriage of Plants 200 avg. distance upto 10 km.)	100 No	100	1.00	100.00
6	Spreading of plants pit to pit	100 No	100	131.20	131.20
7	Re-planting to plants	100 No	100	229.09	229.09
8	Spot Irrigation	100 No.	100	205.00	205.00
9	Weeding & Hoeing (Twice)	100 No	2000	357.52	7150.40
10	Hand Watering (5 times)	100 No	5000	205.00	10250.00
11	Pruning to plants 20%	100 No.	200	387.61	775.22
12	Watch & Ward for every 10 Ha.	Man year	1/10 Man yr.	8528.00	5969.60
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		42683.63
Maintenance IV Year					
1	Cost of raising plants for 15% replacement	1 No.	50	20.00	1000.00
2	Reopening of Pits 50 x 0.50 x 0.50 x 0.40	1 m3	5	5963.00	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	27.47	197.78
4	Loading & Unloading of Plants	1 No.	50	2.46	123.00
5	Carriage of Plants - 150 avg. distance upto 10 km.)	100 No	50	1.00	50.00
6	Spreading of plants pit to pit	100 No	50	131.20	65.60
7	Re-planting to plants	100 No	50	229.09	114.55
8	Spot Irrigation	100 No.	50	205.00	102.50
9	Weeding & Hoeing (Twice)	100 No	2000	357.52	7150.40
10	Hand Watering (4 times)	100 No	4000	205.00	8200.00
11	Pruning to plants 30%	100 No.	300	387.61	1162.83
12	Watch & Ward for every 10 Ha.	Man year	1/10 Man yr.	8528.00	5969.60
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		39565.60
Maintenance V Year					
1	Watch and Ward every 10 ha. (10 Months)	Man Year	1/10 Man yr.	8528.00	5969.60
			Sub Total		5969.60

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Maintenance VI Year					
1	Watch and Ward every 10 ha. (10 Months)	Man Year	1/10 Man yr.	8528.00	5969.60
			Sub Total		5969.60
Maintenance VII Year					
1	Watch and Ward every 10 ha. (10 Months)	Man Year	1/10 Man yr.	8528.00	5969.60
			Sub Total		5969.60
Maintenance VIII Year					
1	Watch and Ward every 10 ha. (10 Months)	Man Year	1/10 Man yr.	8528.00	5969.60
			Sub Total		5969.60
Maintenance IX Year					
1	Watch and Ward every 10 ha. (10 Months)	Man Year	1/10 Man yr.	8528.00	5969.60
			Sub Total		5969.60
Maintenance X Year					
1	Watch and Ward every 10 ha. (10 Months)	Man Year	1/10 Man yr.	8528.00	5969.60
			Sub Total		5969.60
					423457.90
	Over Head expenses 5%				21172.90
	Wages Enhancement 10%				42345.79
			G.Total		486976.59
			Or Say		486977.00

Summary of Costs

a) Cost of Plantation:

- (i) Cost of plantation in 1 Hect. Area (1000 Plants)+
- (ii) Cost of plantation for **0.7902** ha. area
- (iii) Entry point activity 10% cost of CA

Rs **486977.00**
Rs 384809
38481

- b) **Net present value** as fixed by Govt. for open area diverted @ **Rs 8.03 lac** per ha.

317265
Total **740555**


Divisional Forest Officer,
Amritsar Forest Division,
Amritsar.
Divisional Forest Officer
Amritsar Forest Division
Amritsar

2. Schedule of Plantation Programme:-

Detail of year wise break up of requirements of funds is as under:-

Year	Area	Rate/ha.	Total amount
0 th year	0.7902	186465.05	147345
1 st year	0.7902	73045.07	57720
2 nd year	0.7902	45880.96	36255
3 rd year]	0.7902	42683.63	33729
4 th year	0.7902	39565.6	31265
5 th year	0.7902	5969.6	4717
6 th year	0.7902	5969.6	4717
7 th year	0.7902	5969.6	4717
8 th year	0.7902	5969.6	4717
9 th year	0.7902	5969.6	4717
10 th year	0.7902	5969.6	4717
Expenses overhead 5%	0.7902	21172.89	16731
Supervision charge 10%	0.7902	42345.79	33462
Total:-			384809

3. Technical details:-

Technical Details of Compensatory Afforestation Scheme Are As Follows -

- General Details:- Blank Area to be stocked by planting 0.7902 ha Area.
- Spacement:- 4m x 2.5 m
- Species:- Shisham, Drek, Euc, Arjun etc.
- Plantation Method:- Pits & Ridge Method
- Soil And Moisture Conservation Works:- N.A.
- Protection (Fencing, Watch Man, People's Participation Etc.) **Watchman**
- Proposed Monitoring Mechanism:- as per guidelines issued by PCCF.
- Any Other Information: **Nil**