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Diversion of 0.0828 ha of forest land for approach road to retail outlet at vill
Nawan Kot on Jalandhar-Amritsar road (Existing NH-1) (New NH-3) Km/stone
441 L/s Distt. Amritsar.

File No. _____

Date of Proposal : _____

SCHEME FOR COMPENSATORY AFFORESTATION

Details scheme for compensatory afforestation to be carried out in lieu of 0.0828 ha.
of forest area to be diverted for approach road to retail outlet at vill Nawan Kot on
Jalandhar-Amritsar road (Existing NH-1) (New NH-3) Km/stone 441 L/s Distt.
Amritsar.

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

District: Amritsar

Village: Harrar

Teh: Ajnala

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

Block no./compartment /survey no. Gagomahal-Chamiari Road via Harrar B/s

Area to be afforested:... 0.207 ha

2. Description of Area

- (i) Whether the site selected for compensatory afforestation is a land bank or not
Land Bank
- (ii) If the CA site is other than the land bank, reason be given... N.A.
- (iii) In case of non forest area identified for CA then what is the distance of CA
site for the adjoining forest boundary ... N.A......
- (iv) Soil type Medium
- (v) 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.

S.K. Sagar, JES
Divisional Forest Officer,
Amritsar Forest Division

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ESTIMATE OF PLANTATION WORKS

Name of Scheme:- Compensatory Afforestation

Wage Rate: 305/-
Plants : 1000 No.

Advance Work and Plantation					
	Name of Work	Unit		Qty	Total Amt
	Nursery	1	24.16	1100	26574.26
	Cost of raising plants				
	Soil Works				
1	Site /Jungle Clearance (25%)	Ha.	4988.71	0.25	1247.18
2	Alignment & Dagbailing	Ha.	792.70	1	792.70
3	Earth Work-	1M ³	93.61	80	7489.11
	(a) Digging of Pits 800x 0.5m x0.5mx0.4m				
	(b) Preparation of Ridges 500 x .8x.50 m (base 100 cm, top 60 cm)	1M ³	81.53	200 m3	10816.00
4	Kana Stubbing 20%	Ha.	24952.62	0.20	4990.52
1	a) Refilling of Pits	100 No	126.83	900	1141.49
	(b) Digging of slots-200 x .3 x .3 x .2 m	m3	55.87	3.60	201.12
2	Loading & Unloading of Plants (1000+10% Wastage=1100)	100 No	37.75	1100	415.22
3	Carriage of Plants (1000+10% Wastage=1100 avg. distance upto 10 km.)	100 No	182.70	1100	2009.68
1	i) Carriage from site to site	100 No	10.57	1000	105.69
	ii) Planting of Plants (1000 No Including 10% replacement)	100 No	330.67	1000	3306.68
5	Spot Irrigation (1000 Plants)	100 No	274.80	1000	2748.02
6	Application of Insecticide (2 times)	100 No	37.75	2000	754.95
7	Application of Fertilizers (2 times)	100 No	37.75	2000	754.95
8	Weeding & Hoeing 3 times	100 No	330.67	3000	9920.05
9	Hand Water (12 times)	100 No	274.80	12000	32976.24
10	Replanting of Plants 10%	100 No	836.49	100	836.49
11	Rejungle Clearance (2 times)	Per Ha.	2210.50	0.5	1105.25
12	Covering (25% plants) of plants	100 No	274.80	250	687.00
13	Uncovering of plants	100 No	30.20	250	75.50
14	Restubbing of Kana (1 time)		9485.20	0.2	1897.04
15	Laying out & fixing of Barbed Wire	L/s			4200.00
16	Watch & Ward for every 10 Ha. (7 months)	Man year	5550.40	1Man 7 Month	5550.40
17	Material				6794.55
	i) Insecticides/Fertilizers	L/s			15099.01
	ii) POL	L/s			60396.04
	iii) Barbed Wire& fencing	L/s			
	Sub Total				202885.13
Maintenance 1 Year					
1	Cost of raising plants for 30% replacement	1 No.	24.16	300	7247.52
2	Reopening of Pits 300 x 0.50 x 0.50 x 0.30	1 m3	33.22	22.5m3	747.40
3	Refilling of pits with earth in other soils 300 x 0.50 x 0.50 x 0.30	1 m3	16.61	22.5m3	373.70
4	Loading & Unloading of Plants	1 No.	0.38	300	113.24
5	Carriage of Plants (300+10% Wastage=330 avg. distance upto 10 km.)	100 No	182.70	330	602.9

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6	Spreading of plants pit to pit	100 No	10.57	300	31.7
7	Re planting to plants	100 No	330.67	300	992.0
8	Spot Irrigation	100 No.	274.80	300	824.4
9	Weeding & Hoeing (thrice)	100 No	330.67	3000	9920.05
10	App. Of Fertilizer (two times)	100 No	37.75	2000	754.95
11	App. Of Insecticide (two times)	100 No	37.75	2000	754.95
12	Hand watering 8 Times	100 No	274.80	8000	21984.16
13	Rejungle Clearance (2 times)	Per Ha.	2210.50	0.50	1105.25
14	Restubbing of Kana	Per Ha.	9485.20	0.20	1897.04
15	Watch & Ward for every 10 Ha. (10 months)	Man year	79300.00	1/10 Man yr.	7930.00
16	Repair of Barbed wire	L/s			6794.55
17	POL & Machinery	L/s			15099.01
18	Material and supply	L/s			10569.31
				Sub Total	87742.16

Maintenance II Year

1	Cost of raising plants for 25% replacement	No.	24.16	250	6039.60
2	Reopening of Pits 200 x 0.50 x 0.50 x 0.30	1 m3	33.22	18.75 m3	412.50
3	Refilling of pits with earth in other soils 200 x 0.50 x 0.50 x 0.30	1 m3	16.61	15 m3	116.10
4	Loading & Unloading of Plants	1 No.	0.38	250	94.37
5	Carriage of Plants (200+10% Wastage=220 avg. distance upto 10 km.)	100 No	182.70	220	401.9
6	Spreading of plants pit to pit	100 No	10.57	250	26.4
7	Re-planting to plants	100 No	330.67	250	826.7
8	Spot Irrigation	100 No.	274.80	250	687.0
9	Weeding & Hoeing (twice)	100 No	330.67	3000	9920.05
10	Hand Watering 5 Times	100 No	274.80	5000	13740.10
11	Rejungle Clearance (2 times)	Per Ha.	2210.50	0.50	1105.25
12	Stubbing of Kana	Per Ha.	9485.20	0.20	1897.04
13	Pruning to plants	100 No.	277.82	200	555.64
14	Watch & Ward for every 10 Ha.	Man year	87565.20	1/10 Man yr.	8756.52
15	Repair of Barbed wire	L/s			6794.55
16	POL & Machinery	L/s			15099.01
17	Material and supply	L/s			10569.31
				Sub Total	77042.08

Maintenance III Year

1	Cost of raising plants for 20% replacement	1 No.	24.16	200	4831.68
2	Reopening of Pits 200.x 0.50 x 0.50 x 0.30	1 m3	33.22	15 m3	330.00
3	Refilling of pits with earth in other soils 100 x 0.50 x 0.50 x 0.30	1 m3	18.12	15 m3	180.00
4	Loading & Unloading of Plants	1 No.	0.38	200	75.50
5	Carriage of Plants (100+10% Wastage=110 avg. distance upto 10 km.)	100 No	182.70	110	200.97
6	Spreading of plants pit to pit	100 No	10.57	200	21.14
7	Re planting to plants	100 No	330.67	200	661.34
8	Spot Irrigation	100 No.	274.80	200	549.60
9	Weeding & Hoeing (thrice)	100 No	330.67	3000	9920.05
10	Hand Watering (3 times)	100 No	274.80	3000	8244.06
11	Rejungle Clearance (2 times)	Per Ha.	2210.50	0.50	1105.25
12	Stubbing of Kana	Per Ha.	9485.20	0.20	1897.04
13	Pruning to plants 20%	100 No.	277.82	200	555.64
14	Watch & Ward for every 10 Ha.	Man year	79300.00	1/10 Man yr.	7930.00
15	Repair of Barbed wire	L/s			6794.55
16	POL & Machinery	L/s			15099.01
17	Material and supply	L/s			10569.31

Conversion of 0.0828 ha of forest land for approach road to retail outlet at Vill Nawan kot on Jalandhar - Amritsar road (Existing NH-1) (New NH-3) Km/stone 441 L/s Distt. Amritsar.

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				Sub Total	68965.14
Maintenance IV Year					
1	Cost of raising plants for 15% replacement	1 No.	24.16	150	3623.76
2	Reopening of Pits 150 x 0.50 x 0.50 x 0.30	1 m3	33.22	11.25 m3	247.50
3	Refilling of pits with earth in other soils 150 x 0.50 x 0.50 x 0.30	1 m3	18.12	11.25 m3	135.00
4	Loading & Unloading of Plants	1 No.	0.38	150	56.62
5	Carriage of Plants (100+10% Wastage=110 avg. distance upto 10 km.)	100 No	182.70	110	200.97
6	Spreading of plants pit to pit	100 No	10.57	150	15.85
7	Re planting to plants	100 No	330.67	150	496.00
8	Spot Irrigation	100 No.	274.80	150	412.20
9	Weeding & Hoeing (thrice)	100 No	330.67	3000	9920.05
10	Hand Watering (3 times)	100 No	274.80	3000	8244.06
11	Rejungle Clearance (2 times)	Per Ha.	2210.50	0.50	1105.25
12	Stubbing of Kana	Per Ha.	9485.20	0.20	1897.04
13	Pruning to plants 30%	100 No.	277.82	300	833.47
14	Watch & Ward for every 10 Ha.	Man year	79300.00	1/10 Man yr.	7930.00
15	Repair of Barbed wire	L/s			6794.55
16	POL & Machinery	L/s			15099.01
17	Material and supply	L/s			10569.31
				Sub Total	67580.64
Maintenance V Year					
1	Cost of raising plants for 10% replacement	1 No.	24.16	100	2415.84
2	Reopening of Pits 100 x 0.50 x 0.50 x 0.30	1 m3	33.22	7.5 m3	165.00
3	Refilling of pits with earth in other soils 100 x 0.50 x 0.50 x 0.30	1 m3	18.12	7.5 m3	90.00
4	Loading & Unloading of Plants	1 No.	0.38	100	37.75
5	Carriage of Plants (100+10% Wastage=110 avg. distance upto 10 km.)	100 No	182.70	110	200.97
6	Spreading of plants pit to pit	100 No	10.57	100	10.57
7	Re-planting to plants	100 No	330.67	100	330.67
8	Spot Irrigation	100 No.	274.80	100	274.80
9	Weeding & Hoeing (thrice)	100 No	330.67	3000	9920.05
10	Hand Watering (3 times)	100 No	274.80	3000	8244.06
11	Rejungle Clearance (2 times)	Per Ha.	2210.50	0.50	1105.25
12	Stubbing of Kana	Per Ha.	9485.20	0.20	1897.04
13	Pruning to plants 30%	100 No.	277.82	300	833.47
14	Watch & Ward for every 10 Ha.	Man year	79300.00	1/10 Man yr.	7930.00
15	Repair of Barbed wire	L/s			6794.55
16	POL & Machinery	L/s			15099.01
17	Material and supply	L/s			10569.31
				Sub Total	65918.33
Maintenance VI Year					
1	Cost of raising plants for 50% replacement	1 No.	24.16	50	1207.92
2	Reopening of Pits 50 x 0.50 x 0.50 x 0.30	1 m3	33.22	3.75 m3	82.50
3	Refilling of pits with earth in other soils 50 x 0.50 x 0.50 x 0.30	1 m3	18.12	3.75 m3	45.00

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4	Loading & Unloading of Plants	1 No.	0.38	50	18.87
5	Carriage of Plants (100+10% Wastage=110 avg. distance upto 10 km.)	100 No	182.70	110	200.97
6	Spreading of plants pit to pit	100 No	10.57	50	5.28
7	Re-planting to plants	100 No	330.67	50	165.33
8	Spot Irrigation	100 No.	274.80	50	137.40
9	Weeding & Hoeing (thrice)	100 No	330.67	3000	9920.05
10	Hand Watering (3 times)	100 No	274.80	3000	8244.06
11	Rejungle Clearance (2 times)	Per Ha.	2210.50	0.50	1105.25
12	Stubbing of Kana	Per Ha.	9485.20	0.20	1897.04
13	Pruning to plants 30%	100 No.	277.82	300	833.47
14	Watch & Ward for every 10 Ha.	Man year	79300.00	1/10 Man yr.	7930.00
15	Repair of Barbed wire	L/s			6794.55
16	POL & Machinery	L/s			15099.01
17	Material and supply	L/s			10569.31
				Sub Total	64256.01
Maintenance VII Year					
1	Re Jungle Clearance two times	Per Ha.	2210.50	0.50	1105.25
2	Re-Kana Stubbing	Per Ha.	9485.20	0.20	1897.04
3	Watch and Ward every 10 ha.		87565.20	1/10 Man yr.	8756.52
				Sub Total	11758.81
Maintenance VIII Year					
1	Re Jungle Clearance two times	Per Ha.	2210.50	0.50	1105.25
2	Re-Kana Stubbing	Per Ha.	9485.20	0.20	1897.04
3	Watch and Ward every 10 ha.		87565.20	1/10 Man yr.	8756.52
				Sub Total	11758.81
Maintenance IX Year					
1	Watch and Ward every 10 ha.	Per Ha.	87565.20	1/10 Man yr.	8756.52
				Sub Total	8756.52
Maintenance X Year					
1	Watch and Ward every 10 ha.	Per Ha.	87565.20	1/10 Man yr.	8756.52
				Sub Total	8756.52
				TOTAL	675420.14
					33771.01
	Over Head expenses 5%			G.Total	709191.15

Summary of Costs

a) Cost of Plantation:

- (i) Cost of plantation in 1 Hect. Area (1000 Plants)+
(ii) Cost of plantation for 0.207 ha. area
supervision charges 10%

Rs	709191.15
Rs	146803
Rs	14680
TOTAL	161483

- b) **Net present value** as fixed by Govt. for open area diverted @ Rs 6.26 lac per ha.

Rs	51833
G.TOTAL	213315

Silvicultural operations can be changed as per site requirement after recording proper reasons by Divisional Forest Officer. Changes in operation will be done by remaining within the financial limits of cost model proposed.

S.K. Sagar, 15/9/19
Divisional Forest Officer,
Amritsar Forest Division,
Amritsar.