

Full Title of the Project:- Diversion 0.08525 ha. Of Forest land for approach road to MARRIAGE PALACE ' THEGRAND PAVILION at Village LALL KALAN on Ludhiana-Chandigarh road Km. 62-63 (RHS) on NH-95 Tehsil Samrara & Distt. Ludhiana. Under Forest division & Distt Ludhiana.
 Proposal No. FP/PB/Approach/39136/2019
 Date: 26.02.2019
 Email. Address: karanmehan2455@gmail.com
 MB. No.9417006457

CHECK LIST SERIAL NUMBER: 17
"SCHEME FOR COMPENSATORY AFFORESTATION"

Detailed scheme for Compensatory Afforestation to be carried out in lieu of 0.08525 Ha. Of forest area to be diverted for approach road to MARRIAGE PALACE ' THEGRAND PAVILION at Village LALL KALAN on Ludhiana-Chandigarh road Km. 62-63 (RHS) on NH-95 Tehsil Samrara & Distt. Ludhiana. Under Forest Division & Distt Ludhiana.

1. Details of degraded forest land/non-forest land:-

District: **Ludhiana** Village: **Hadiwal**

Tehsil: **Koom Kalan**

Name of Forest Division:-**Ludhiana** Range:-**Mattewara**

Block/Compartment/Survey No Protected Forest:- **Hadiwal Forest** Area of CA in

this Case is **0.21 Ha.**

2. Description of the 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, reasons be given: **A**

III) In case of non- forest area identified for CA, and then what is the distance of CA site from the adjoining forest boundary: **NA**

IV) Soil type : **Sandy Loam**

V) Topography :

(a) **Hilly/Undulating/Plain**

(b) **Slope: Steep/Medium/Gentle**

VI) Whether the area is bearing any root stock of vegetation:

3. Plantation Model:-

Copy of the approved Compensatory Afforestation Scheme/Model showing component - wise physical and financial break up to be enclosed

4.Schedule of Plantation Programme:-

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

Year	Area in Ha.	Rate/ Ha.	Total Amount
0 th Year	0.21	186465/-	39157-00
1 st Year	0.21	73045/-	15339-00
2 nd Year	0.21	45880/-	9634-00
3 rd Year	0.21	42683/-	8963-00

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4 th Year	0.21	39565/-	8308-00
5 th Year	0.21	5969/-	1253-00
6 th Year	0.21	5969/-	1253-00
7 th Year	0.21	5969/-	1253-00
8 th Year	0.21	5969/-	1253-00
9 th Year	0.21	5969/-	1253-00
10 th Year	0.21	5969/-	1253-00
Over Head Expenses @ 5% + Wage Enhancement@ 10%	0.21	63517/-	13346-00
Total		486977/-	102265-00

5. **Technical details:-**
 Technical details of Compensatory Afforestation Scheme are as follows:-
 (a) **General Details:-** The area in which compensatory Afforestation is to be done falls along the **Hadiwal Forest** land of falls near this forest strip area of the strip is plain and growing stock already existing is less & needed to be Afforestation.
 (b) **Spacement:- 3x3mt**
 (c) **Species:-** Shisham, Dek, Tun, Arjun, Sirs.
 (d) **Plantation Method:- Trench & Pits.**
 (e) **Soil and Moisture Conservation Works:- NA**
 (f) **Protection (Fencing, Watch man. People's Participation etc.):** Fencing, Watch man
 (g) **Proposal Monitoring Mechanism:-** Segment of plantation to be made. Monitoring is to be done by Forester = 100% Checking, Range Officer = 25 %, D.D. RO. = 10%, D. RO. 5%.
 (h) **Any other information:-**

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Wage Rate : Rs. 328

Plantation Model For Standard Plantation under Compensatory Afforestation
 Plants Per Hectare : 1000 Nos.

Sr. No.	Name of Work	Unit	Qty.	Unit Cost (in Rs.)	Amount
	Nursery				
	Nursery cost of raising plants	1100	1100	20.00	22000.00
A	Soil Work				
1	Site / Jungle Clearance (25%)	Ha.	0.5	5367.22	2683.61
2	Alignment & Dagbaling	Ha.	1	984.00	984.00
3	Earth works in Digging of Pits 1000 x 0.5 m x 0.5 m x 0.4 m	1 M3	100	101.38	10138.00
4	Kana Stubbing 25%	Ha.	0.25	26836.00	6709.00
B	Plantation Work				
1	Refilling of Pits 1000x0.5mx0.5mx0.3	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
5	ii) Planting of Plants (1000 No. including 10% replacement)	100 No.	1000	984.00	9840.00
6	Spot Irrigation (1000 Plants)	100 No.	1000	205.00	2050.00
7	Application of Insecticide (2 Times)	100 No.	1000	41.00	410.00
8	Application of Fertilizers (2 Times)	100 No.	1000	41.00	410.00
9	Weeding & Hoeing 3 Times	100 No.	3000	357.52	10725.60
10	Hand Watering (12 Times)	100 No.	12000	205.00	24600.00
11	Replanting of Plants 10%	100 No.	100	579.11	579.11
12	Rejungle Clearance (2 Times)	Per Ha.	1	2378.00	2378.00
13	Covering (25% plants) of plants	100 No.	250	295.20	738.00
14	Uncovering of plants	100 No.	250	32.80	82.00

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15	Restubbing of Kana (1 Time)			26836.30	6709.08
16	Laying out & fixing of Barbed Wire	L/s	0.25		7872.00
17	Watch & Ward for every 10 Ha. (7 Months)	Man Year	1 Man 7 Month	8528.00	5969.60
	Material				
	i) Insecticides / Fertilizers				5000.00
	ii) POL	L/s			5000.00
	iii) Barbed Wire	L/s			50000.00
	Sub Total	L/s			186465.05
	Maintenance 1 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	21.6	59.63	1341.68
3	Refilling of pits with earth in other soils 300 x 0.50 x 0.50 x 0.30	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 to plants	100 No.	165	329.08	542.98
8	Spot Irrigation	100 No.	165	205.00	338.25
9	Weeding & Hoeing (Three)	100 No.	3000	357.52	10725.60
10	Application of Insecticide (2 Times)	100 No.	1000	41.00	410.00
11	Application of Fertilizers (2 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	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				73045.06
	2nd Year Maintenance				
1	Cost of raising plants for 15% replacement	1 No.	150	20.00	3000.00
2	Reopening of Pits 150 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 150x 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 Wastage = 75 avg. distance upto 10 Km.)	500 No.	1	196.20	196.20
6	Spreading of plants pit to pit	100 No.	75	131.20	98.40
7	Re-Planting to 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.	5000	205.00	10250.00
11	Rejungle Clearance (2 Times)	Per Ha.	1	2378.00	2378.00
12	Pruning to Plants	100 No.	100	387.61	387.61
13	Watch & Ward for every 10 Ha.	Man Year	1/10 Man Yr.	8528.00	5969.60
14	Repair of Barbed Wire	L/s			5000.00


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15	POL & Machinery				5000.00
16	Material and Supply	L/s			5000.00
	Sub Total	L/s			45880.96
	3rd Year Maintenance				
1	Cost of raising plants for 10% replacement				
2	Reopening of Pits 100 x 0.50 x 0.50 x 0.40	1 No.	100	20.00	2000.00
	Refilling of pits with earth in other soils 100 x 0.50 x 0.50 x 0.30	1 m3	10	5963.00	429.34
3					
4	Loading & Unloading of Plants	1 m3	7.5	27.47	197.78
		1 No.	100	2.46	246.00
5	Carriage of Plants 50 avg. distance upto 10 Km.)				
6	Spreading of plants pit to pit	100 No.	100	1.00	100.00
7	Re-Planting to plants	100 No.	100	131.20	131.20
8	Spot Irrigation	100 No.	100	229.09	229.09
9	Weeding & Hoeing (thrice)	100 No.	100	205.00	205.00
10	Hand Watering (8 Times)	100 No.	2000	357.52	7150.40
11	Pruning to Plants 20%	100 No.	5000	205.00	10250.00
		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				
14	POL & Machinery	L/s			5000.00
15	Material and Supply	L/s			5000.00
	Sub Total	L/s			42683.63
	4th Year Maintenance				
1	Cost of raising plants for 5% 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
	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 50 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	114.54
8	Spot Irrigation	100 No.	50	205.00	102.50
9	Weeding & Hoeing (thrice)	100 No.	2000	357.52	7150.40
10	Hand Watering (8 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				39565.59
	5th Year Maintenance				
1	Watch & Ward for every 10 Ha. (10 Motnts)	Man Year	1/10 Man Yr.	8528.00	5969.60
	Sub Total				5969.60
	6th Year Maintenance				
1	Watch & Ward for every 10 Ha. (10 Motnts)	Man Year	1/10 Man Yr.	8528.00	5969.60


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					5969.60
		Sub Total			
	7th Year Maintenance				
1	Watch & Ward for every 10 Ha. (10 Motnts)	Man Year	1/10 Man Yr.	8528.00	5969.60
	Sub Total				5969.60
	8th Year Maintenance				
1	Watch & Ward for every 10 Ha. (10 Motnts)	Man Year	1/10 Man Yr.	8528.00	5969.60
	Sub Total				5969.60
	9th Year Maintenance				
1	Watch & Ward for every 10 Ha. (10 Motnts)	Man Year	1/10 Man Yr.	8528.00	5969.60
	Sub Total				5969.60
	10th Year Maintenance				
1	Watch & Ward for every 10 Ha. (10 Motnts)	Man Year	1/10 Man Yr.	8528.00	5969.60
	Sub Total				5969.60
	Total				423457.89
	Over Head expenses 5%				21172.89
	Wage Enhancement @ 10%				42345.79
	G. Total				486976.58
	Or Say				486977

Cost of Compensatory Afforestation per Ha. For 7-10 Year

Rs. 486977 per Ha. = $486977 \times 0.21 = 102265.17$ or says 102265/-

Net Present Value per Ha. @ Rs. 626000 $\times 0.08525 =$ or says 53367/-

Grand Total = 155632/-

Ludhiana
29/8/2019

Divisional Forest Officer,
Ludhiana Forest Division,
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