

Full Title of the Project: Diversion of Forest land 0.0684 ha. of Forest Land for access permission to Smt. Veena Rani on old NH-01 (New NH-44) at Km 166.979, in Village Khanpur Kolian Teh. Thanesar under Forest Division & Distt. Kurukshetra.

File No. : FP/HR/APPROACH/155809/2022

Date of Proposal: 16-01-2023

CHECK LIST SERIAL: NUMBER -18
"SCHEME FOR COMPENSATORY AFFORESTATION"

Name of the Forest/Reach to be diverted :

Full Title of the Project: Diversion of Forest land 0.0684 ha. of Forest Land for access permission to Smt. Veena Rani on old NH-01 (New NH-44) at Km 166.979, in Village Khanpur Kolian Teh. Thanesar under Forest Division & Distt. Kurukshetra.

Forest Area =0.0684 ha.

Details of degraded forest land/non-forest land where C.A. is to be carried out,

Division & District Kurukshetra

Tehsil & Range Thanesar

C.A. Site name : **DUK Railway Line km 153-154 L&R**

Area to be Afforested:-

c) Whether the site selected for Compensatory Afforestation is a Land bank (yes or No.) : **No**

d) If the CA site is other than the land bank, reason be given :- **There is no land bank available in district Kurkushetra**

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

i. Soil type: **Sandy Laom**

ii. Topography a) Hilly/Undulating/Plain : **Plain**

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

iii. Whether the area is bearing any root stock of vegetation:- **No**

Plantation Model:-

Copy of the approved Compensatory Afforestation Scheme/Model showing component wise physical and financial break up is as under:

1. **Schedule of Plantation Programme :-**

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

The plantation cost is calculated for Tall Plantation norms at 4m × 2½ m spacing at the wage rate of Rs. 396.77/- per day as under :-

Cost Norms of Plantation of Tall Plants under Compensatory Afforestation during the year 2023-24 at wages rate Rs. 405.11/- per day					
No. of Plants = 1000					
Sr.	Item of Work	Unit	Qty.	Rate/Unit	Amt.
I year plantation					
1	Jungle Clearance	ha.	0.5	6076.65	3038.33
2	Raising of plants in Nursery (30cm×45cm)	No	480	101.57	48753.60
3	Raising of plants in Nursery (15cm×4522cm)	No	720	13.38	9633.60
4	Dag bailing and alignment	RKM	3	283.58	850.74
5	Digging of pits 400×0.60m×0.60m×0.60m	m3	86.4	172.17	14875.49
6	Digging of pits 400×0.45m×0.45m×0.45m	m3	54.675	141.77	7751.27
7	Loading and unloading of plants in tractor/cart (30×45)	No	440	3.06	1346.40
8	Loading and unloading of plants in tractor/cart (15×22)	No	660	0.45	297.00
9	Carriage of plants (30×45)	No	440	25.45	11198.00
10	Carriage of plants (15×22)	No	660	2.53	1669.80
11	Planting of Plants including 10% replacement (30×45)	No	440	16.22	7136.80
12	Planting of Plants including 10% replacement (15×22)	No	660	6.09	4019.40
13	Application of fertilizer (one time DAP + one time urea)	No	2000	0.8	1600.00
14	Irrigation five times	No	5000	6.09	30450.00
15	First weeding & hoeing (30×45)	No	400	8.08	3232.00
16	First weeding & hoeing (15×22)	No	600	6.09	3654.00
17	Subsequent weeding and hoeing two times (30×45)	No	800	6.09	4872.00
18	Subsequent weeding and hoeing two times (15×22)	No	1200	4.05	4860.00
19	Cost of wages of protection watcher (one protection watecher for six months for plantation area of 10 ha.)	LS			7292
20	Miscellaneous Expenditure (Urea Dap, tools etc.)				1000
	Sub Total				167530.43
	Added EPF @ 13%				
	Added ESI @ 3.25%				
	of wages component 50% of total				13611.85
	Added contractor profit @ 7% of total				11727.13
	Total				192869.40
IIInd Year Plantation					
1	Cleaning of weed/bushes between plantation	ha.	0.5	1908.14	954.07
2	Raising of plants in Nursery (30cm×45cm)	No	96	101.57	9750.72
3	Raising of plants in Nursery (15cm×4522cm)	No	144	13.38	1926.72
4	Re-opening of pits 80×0.60m×0.60m×0.60m	m3	17.28	81.03	1400.20
5	Re-opening of pits 120×0.45m×0.45m×0.45m	m3	10.93	81.03	885.66

6	Loading and unloading of plants in tractor/cart (30×45)	No	88	3.06	269.28
7	Loading and unloading of plants in tractor/cart (15×22)	No	132	0.45	59.40
8	Carriage of plants (30×45)	No	88	25.45	2239.60
9	Carriage of plants (15×22)	No	132	2.53	333.96
10	Planting of Plants including (30×45)	No	88	16.22	1427.36
11	Planting of Plants including (15×22)	No	132	6.09	803.88
12	Irrigation four times by hired tractor	No.	4000	6.09	24360.00
13	Weeding and hoeing Three times (30×45)	No.	1200	6.09	7308.00
14	Weeding and hoeing Three times (15×22)	No.	1800	4.05	7290.00
15	Miscellaneous Expenditure	LS			1000
16	Cost of wages of protection watcher (one protection watercher for six months for plantation area of 10 ha.)				7292
	Sub-Total				67300.85
	Added EPF @ 13%				
	Added ESI @ 3.25%				
	of wages component 50% of total				5468.19
	Added contractor profit @ 7% of total				4711.06
	Total				77480.10
	IIIrd Year Plantation				
1	Cleaning of weed/bushes between plantation	ha.	0.5	1908.14	954.07
2	Raising of plants in Nursery (30cm×45cm)	No	48	101.57	4875.36
	Raising of plants in Nursery (15cm×4522cm)	No	72	13.38	963.36
3	Re-opening of pits 40×0.60m×0.60m×0.60m	m3	3.645	81.03	295.35
	Re-opening of pits 60×0.45m×0.45m×0.45m	m3	5.4675	81.03	443.03
4	Loading and unloading of plants in tractor/cart (30×45)	No	44	3.06	134.64
	Loading and unloading of plants in tractor/cart (15×22)	No	66	0.45	29.70
5	Carriage of plants (30×45)	No	44	25.44	1119.36
	Carriage of plants (15×22)	No	66	2.53	166.98
6	Planting of Plants including (30×45)	No	44	16.22	713.68
	Planting of Plants including (15×22)	No	66	6.09	401.94
7	Irrigation two times	No.	2000	6.09	12180.00
8	Weeding and hoeing (30×45)	No.	400	6.09	2436.00
	Weeding and hoeing (15×22)	No.	600	4.05	2430.00
9	Miscellaneous Expenditure	LS			1000
10	Cost of wages of protection watcher (one protection watercher for six months for plantation area of 10 ha.)	LS			3646
	Sub-Total				31789.48
	Added EPF @ 13%				
	Added ESI @ 3.25%				

	of wages component 50% of total				2582.89
	Added contractor profit @ 7% of total				2225.26
	Total				36597.63
	4th Year Plantation				
1	Cost of wages of protection watcher (one protection watercher for six months for plantation area of 10 ha.)				3646
2	Cleaning, pruning and spacing	Ls		0	5000
3	Miscellancous expenditure				2500
	Sub-Total				11146
	Added EPF @ 13%				
	Added ESI @ 3.25%				
	of wages component 50% of total				905.61
	Added contractor profit @ 7% of total				780.22
	Total				12831.83
	5th Year Plantation				
1	Cost of wages of protection watcher (one protection watercher for six months for plantation area of 10 ha.)				3646
2	Cleaning, pruning and spacing	Ls		0	5000
3	Miscellancous expenditure				2500
	Sub-Total				11146
	Added EPF @ 13%				
	Added ESI @ 3.25%				
	of wages component 50% of total				905.61
	Added contractor profit @ 7% of total				780.22
	Total				12831.83
	6th Year Plantation				
1	Cost of wages of protection watcher (one protection watercher for six months for plantation area of 10 ha.)				3646
2	Cleaning, pruning and spacing	Ls		0	5000
3	Miscellancous expenditure				2500
	Sub-Total				11146
	Added EPF @ 13%				
	Added ESI @ 3.25%				
	of wages component 50% of total				905.61
	Added contractor profit @ 7% of total				780.22
	Total				12831.83
	7th Year Plantation				
1	Cost of wages of protection watcher (one protection watercher for six months for plantation area of 10 ha.)				3646
2	Cleaning, pruning and spacing	Ls		0	5000
3	Miscellancous expenditure				2500

		Sub-Total			11146
		Added EPF @ 13%			
		Added ESI @ 3.25%			
		of wages component 50% of total			905.61
		Added contractor profit @ 7% of total			780.22
		Total			12831.83
		8th Year Plantation			
1	Cost of wages of protection watcher (one protection watecher for six months for plantation area of 10 ha.)				3646
2	Cleaning, pruning and spacing	Ls		0	5000
3	Miscellancous expenditure				2500
		Sub-Total			11146
		Added EPF @ 13%			
		Added ESI @ 3.25%			
		of wages component 50% of total			905.61
		Added contractor profit @ 7% of total			780.22
		Total			12831.83
		9th Year Plantation			
1	Cost of wages of protection watcher (one protection watecher for six months for plantation area of 10 ha.)				3646
2	Cleaning, pruning and spacing	Ls		0	5000
3	Miscellancous expenditure				2500
		Sub-Total			11146
		Added EPF @ 13%			
		Added ESI @ 3.25%			
		of wages component 50% of total			905.61
		Added contractor profit @ 7% of total			780.22
		Total			12831.83
		10th Year Plantation			
1	Cost of wages of protection watcher (one protection watecher for six months for plantation area of 10 ha.)				3646
2	Cleaning, pruning and spacing	Ls		0	5000
3	Miscellancous expenditure				2500
		Sub-Total			11146
		Added EPF @ 13%			
		Added ESI @ 3.25%			
		of wages component 50% of total			905.61
		Added contractor profit @ 7% of total			780.22
		Total			12831.83

Abstract of Cost Norms			
Year of Plantation	Cost (in Rs.)	Cost per plant	
Ist Year Plantation	192869.40	192.87	
2nd Year Plantation	77480.10	77.48	
3rd Year Plantation	36597.63	36.60	
4th Year Plantation	12831.83	12.83	
5th Year Plantation	12831.83	12.83	
6th Year Plantation	12831.83	12.83	
7th Year Plantation	12831.83	12.83	
8th Year Plantation	12831.83	12.83	
9th Year Plantation	12831.83	12.83	
10th Year Plantation	12831.83	12.83	
Total	396769.97	396.77	

Area to be diverted			In ha.		
No. of Trees to be felled			0.0684		
Plants to be damaged			9		
Plants to be planted			0		
Area to be planted			100		
Additional CA in lieu of plants to be damaged (Double the plants to be damaged)			0.10		
			0		
Sr. No.	DESCRIPTION		RATE	Per	TOTAL AMOUNT (Rs.)
A	Compensatory Afforestation Charges	No. of Plants			
	(1) 1st Year Cost of Afforestation	137	192.87	Per Plants	26423
	(2) 2nd Year Maintenance		77.48	Per Plants	10615
	(3) 3rd Year Maintenance		36.60	Per Plants	5014
	(4) 4th Year Maintenance		12.83	Per Plants	1758
	(5) 5th Year Maintenance		12.83	Per Plants	1758
	(6) 6th Year Maintenance		12.83	Per Plants	1758
	(7) 7th Year Maintenance		12.83	Per Plants	1758
	(8) 8th Year Maintenance		12.83	Per Plants	1758
	(9) 9th Year Maintenance		12.83	Per Plants	1758
	(10) 10th Year Maintenance		12.83	Per Plants	1758
	(11) Barbed wire fencing charges (in Rkm)	0	200000.12	Per Rkm.	0
	Total Charges				54358
	Supervisory / Overhead / Miscellaneous Charges		20% on the total CA charges		10872
	Total (A) CA Charges				65230
B	Additional Compensatory Afforestation Charges				
	(1) 1st Year Cost of Afforestation	0	192.87	Per Plants	0
	(2) 2nd Year Maintenance		77.48	Per Plants	0

	(3) 3rd Year Maintenance		36.60	Per Plants	0
	(4) 4th Year Maintenance		12.83	Per Plants	0
	(5) 5th Year Maintenance		12.83	Per Plants	0
	(6) 6th Year Maintenance		12.83	Per Plants	0
	(7) 7th Year Maintenance		12.83	Per Plants	0
	(8) 8th Year Maintenance		12.83	Per Plants	0
	(9) 9th Year Maintenance		12.83	Per Plants	0
	(10) 10th Year Maintenance		12.83	Per Plants	0
	(11) Barbed wire fencing charges (in Rkm)	0.00	200000.12	Per Rkm.	0
	Total (B) Addl. CA Charges				0
C	Catchment Area Treatment (if required)				
	Soil Moisture Conservation (SMC) work		30% on the total CA charges		0
	Total (C)				0
D	Safety Zone (if required)				0
E	Additional Charges (if required)				
	-----				0
	-----				0
	Total (D+E)				
	Grand Total (A+B+C+D+E) to be deposited in CAMPA Fund				65230

5. Technical details:-

Technical detail of Compensatory Afforestation Scheme are as follows:-

- General Detail:- Plantation will be done with 3 strand barbed wire in
- Spacing:- 4 x 2½ metre
- Species:- Neem, Bakain, Papri etc.
- Plantation method:- Tall Plantation
- Soil and Moisture Conservation work:- Nil
- Protection:- (Fencing, Watch man, People's Participation etc.): -Fencing
- Proposed Monitoring Mechanism:- Checking of Plantation work will be Done by RFO, DCF, CF & DCF (M&E)
- Any other information:- Nil

Place:- Kurukshetra

Deputy Conservator of Forests
Kurukshetra

Note:- CF (T) should counter sign this CA scheme if Area to be afforested is more than 5 hact.

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File No. : FP/HR/APPROACH/155809/2022
Date of Proposal: 16-01-2023

CHECK LIST SERIOL: NUMBER -18
“SCHEME FOR FELLING CHARGES”



Name of the Forest/Reach to be diverted :

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Forest Area =0.0684 Density of vegetation : 0.4

Felling Charges calculation sheet				
	Vol.	Rate		In ha.
Area to be diverted				0.0684
Felling charges = m3	3.72	1200	m ³	4464
Total Amt. of Felling Charges				4464

Place:- Kurukshetra
Date:-


Deputy Conservator of Forest,
Kurukshetra


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File No. : FP/HR/APPROACH/155809/2022
Date of Proposal: 16-01-2023

CHECK LIST SERIAL: NUMBER -18
“SCHEME FOR NET PRESENT VALUE”

Name of the Forest/Reach to be diverted :

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Forest Area =0.0684

Density of vegetation : 0.4

NPV calculation sheet				
	Rate	Ha.		In ha.
Area to be diverted				0.0684
NPV of the Forest land	957780	0.0684	Per ha.	65512
Total Amt. of NPV				65512

Place:- Kurukshetra
Date:-

Deputy Conservator of Forest,
Kurukshetra