

Title of the Project : Diversion of 0.0026 hec. of forest land for access to Agro Based Warehouse and Recreational(private property) belonging to Sh. Rajesh Goel S/o Sh. Satpal on Delhi-Ambala highway, NH-44, Between Km Stone no. 112-113, Village Kutail, Tehsil Gharaunda, Distt. Karnal, Haryana.  
Proposal No. FP/HR/APPROACH/150132/2021.

**CHECK LIST SERIAL NUMBER: 18**

**“SCHEME FOR COMPENSATORY AFFORESTATION”**

Name of the Forest/Reach to be diverted: Diversion of 0.0026 hec. of forest land for access to Agro Based Warehouse and Recreational (private property) belonging to Sh. Rajesh Goel S/o Sh. Satpal on Delhi-Ambala highway, NH-44, Between Km Stone no. 112-113, Village Kutail, Tehsil Gharaunda, Distt. Karnal, Haryana.

Forest Area = 0.0026 Hect.

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

Division :- Karnal District :- Karnal  
Tehsil:- Gharaunda Range :- Karnal

C.A. Site name : Railway Line K.m 104-108 L/R side

Afforested :- 100 Plants =0.100 Hec.

- a) Whether the site selected for Compensatory Afforestation is a Land bank (Yes or No):-  
Yes, the site selected for compensatory Afforestation is a land bank. It is a Degraded Forest Land.
- b) If the CA site is other than the land bank, reasons be given:- NA
- c) In case of non-forest area identified for CA, then what is the distance of CA site from the adjoining forest boundary :- C.A. will be carried out in protected forest Area.
- i) Soil type: Sandy Loam
- 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 requirements of funds is as under:-

The plantation cost is calculated for TP & NP norms as per PCCF, Haryana, Panchkula letter no. FCA/396 dated. 15.05.2023 wages rate @ of Rs.405.11/- per day(Plain Areas).

Year	Rate per Plant
1 <sup>st</sup> Year cost of afforestation	Rs. 192.87/- Per Plant
2 <sup>nd</sup> Year maintenance	Rs. 77.48/- Per Plant
3 <sup>rd</sup> Year maintenance	Rs. 36.60/- Per Plant
4 <sup>th</sup> Year maintenance	Rs. 12.83/- Per Plant
5 <sup>th</sup> Year maintenance	Rs. 12.83/- Per Plant
6 <sup>th</sup> Year maintenance	Rs. 12.83/- Per Plant
7 <sup>th</sup> Year maintenance	Rs. 12.83/- Per Plant
8 <sup>th</sup> Year maintenance	Rs. 12.83/- Per Plant
9 <sup>th</sup> Year maintenance	Rs. 12.83/- Per Plant
10 <sup>th</sup> Year maintenance	Rs. 12.83/- Per Plant
<b>Total</b>	<b>396.77/-</b>

Area to be Diverted :- 0.0026 ha.

No. of trees to be felled :- 0

Plants to be damaged:- 0

Plants to be planted (Ten time of the trees to be felled): NA

Area to be Planted = Double area@ 1000 plant per ha.=NA

Minimum Plants to be Planted: - (CA)100 Plants = 0.100 ha.

Additional C.A. in lieu of plants to be damaged (Double the plants to be damaged) :- NIL

Sr. No.	DESCRIPTION		RATE	TOTAL AMOUNT (Rs.)
A	<b>Compensatory Afforestation Charges</b>	<b>No. of Plants</b>		
	(1) 1 <sup>st</sup> Year cost of afforestation	100 Plants	Rs.192.87/- Per Plant	19287
	(2) 2 <sup>nd</sup> Year maintenance		Rs. 77.48/- Per Plant	7748
	(3) 3 <sup>rd</sup> Year maintenance		Rs. 36.60/- Per Plant	3660
	(4) 4 <sup>th</sup> Year maintenance		Rs. 12.83/- Per Plant	1283
	(5) 5 <sup>th</sup> Year maintenance		Rs. 12.83/- Per Plant	1283
	(6) 6 <sup>th</sup> Year maintenance		Rs. 12.83/- Per Plant	1283
	(7) 7 <sup>th</sup> Year maintenance		Rs. 12.83/- Per Plant	1283
	(8) 8 <sup>th</sup> Year maintenance		Rs. 12.83/- Per Plant	1283



	(9) 9 <sup>th</sup> Year maintenance		Rs. 12.83/- Per Plant	1283
	(10) 10 <sup>th</sup> Year maintenance		Rs. 12.83/- Per Plant	1283
	Fencing/Miscellaneous/Overhead Charges		(20% of CA Amount)	7935
	Total CA Charges			47611
B	Additional Compensatory Afforestation Charges			
	(1) 1 <sup>st</sup> Year cost of afforestation	0	Rs.192.87/- Per Plant	0
	(2) 2 <sup>nd</sup> Year maintenance		Rs. 77.48/- Per Plant	0
	(3) 3 <sup>rd</sup> Year maintenance		Rs. 36.60/- Per Plant	0
	(4) 4 <sup>th</sup> Year maintenance		Rs. 12.83/- Per Plant	0
	(5) 5 <sup>th</sup> Year maintenance		Rs. 12.83/- Per Plant	0
	(6) 6 <sup>th</sup> Year maintenance		Rs. 12.83/- Per Plant	0
	(7) 7 <sup>th</sup> Year maintenance		Rs. 12.83/- Per Plant	0
	(8) 8 <sup>th</sup> Year maintenance		Rs. 12.83/- Per Plant	0
	(9) 9 <sup>th</sup> Year maintenance		Rs. 12.83/- Per Plant	0
	(10) 10 <sup>th</sup> Year maintenance		Rs. 12.83/- Per Plant	0
	Fencing/Miscellaneous/Overhead Charges		(20% of ACA Amount)	0
	Sub Total (B) Total Addl. C.A. Charges			0
C	Penal C.A.		-	NA
D	Catchment Area Treatment			
	Soil and Moisture Conservation charges		30% of the Total CA	0
	Sub Total (D)			0
E	Safety Zone			NA
F	Additional Charges			
	Tree Guard @2000x100			0
	.....			0
	Sub Total (F)			
G	Plantation damage charges = Not app		Rs. 236/- per plant	0
	GRAND TOTAL (A+B+C+D+E+F+G+H) to be deposited in CAMPA Fund			47611

2. **Technical details:-**

Technical details of Compensatory Afforestation Scheme are as follows:-

- General Detail :-** Compensatory Afforestation will carried out along With, **Railway Line K.m 104-108 L/R side.**
- Spacing:-** 4x4mtr a Part
- Species:-** Neem & Shisham, Jamun/Jamoa etc.
- Plantation method :-** Tall Plantation

- e) Soil and Moisture Conservation Works :- -Nil-
- f) Protection (Fencing, Watch man, People's, Participation etc) :- Fencing
- g) Proposed Monitoring Mechanism: - Checking of Plantation work will be done by  
RFO, DCF, CF & DCF (M&E)
- h) Any other information :- Nil

Place:-Karnal

  
Divisional Forest Officer,  
Karnal Forest Division  
KARNAL

Note :- CF (T) should countersign this C.A. scheme if area to be afforested is more than 5 hectare.



## Annexure -II

Norms of Tall plants under Compensatory Afforestation demanded from User Agency in FCA diversion proposals at a wage rate of Rs. 405.11/- per day(in Plain Areas )					
No. of plants per Ha. = 1000					
Sr no.	Item of Work	Unit	Qty.	405.11 /- Rate/unit(Rs)	Amount (Rs.)
<b>1st Year Plantation</b>					
1	Jungle Clearance	Ha.	0.5	6076.65	3038.33
2	Raising of plants in nursery (30cmX45cm):	No.	480	101.57	48753.60
3	Raising of plants in nursery (15cmX22cm):	No.	720	13.38	9633.60
4	Dag bailing and alignment	RKM	3	283.58	850.74
5	Digging of pits (400x0.6mx0.6mx0.6m)	M3	86.4	172.17	14875.49
6	Digging of pits (600x0.45mx0.45mx0.45m)	M3	54.675	141.77	7751.27
7	Loading and unloading of plants in Tractor/Cart. (30X45cm)	No.	440	3.06	1346.40
8	Loading and unloading of plants in Tractor/Cart. (15cmX22cm)	No.	660	0.45	297.00
9	Carriage of plants (30X45cm)	No.	440	25.45	11198.00
10	Carriage of plants (15cmX22cm)	No.	660	2.53	1669.80
11	Plantation of plants including 10% replacement (30X45cm)	No.	440	16.22	7136.80
12	Plantation of plants including 10% replacement (15cmX22cm)	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 and Hoeing (30X45cm)	No.	400	8.08	3232.00
16	First Weeding and Hoeing (15cmX22cm)	No.	600	6.09	3654.00
17	Subsequent weeding and hoeing two times (30X45cm)	No.	800	6.09	4872.00
18	Subsequent weeding and hoeing two times (15cmX22cm)	No.	1200	4.05	4860.00
19	Cost of Wages of protection watcher (one protection watcher for six months for plantation area of 10 ha. )	LS			7292
20	Miscellaneous Expenditure(Urea Dap, tools etc. )				1000
	<b>Total</b>				<b>167530.43</b>
	Added EPF@13%				
	Added ESI @3.25%				
	of wages component 50% of the total				13611.85
	Added Contractor Profit@7 % total				11727.13
	<b>Net Total</b>				<b>192869.40</b>
<b>2nd Year Plantation</b>					
1	Cleaning of weed/bushes between plantation	Ha.	0.5	1908.14	954.07
2	Raising of plants in Nursery (30cmx45cm)	No.	96	101.57	9750.72
3	Raising of plants in Nursery (15cmx22cm)	No.	144	13.38	1926.72
4	Re-opening of pits 80x0.6mx0.6mx0.6m	M3	17.28	81.03	1400.20
5	Re-opening of pits 120x0.45mx0.45mx0.45m	M3	10.93	81.03	885.66
6	Loading and unloading of plants (30X45cm)	No.	88	3.06	269.28
7	Loading and unloading of plants (15cmX22cm)	No.	132	0.45	59.40
8	Carriage of plants (30X45cm)	No.	88	25.45	2239.60
9	Carriage of plants (15cmX22cm)	No.	132	2.53	333.96
10	Planting of plants (30X45cm)	No.	88	16.22	1427.36
11	Planting of plants (15cmX22cm)	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 (30X45cm)	No.	1200	6.09	7308.00
14	Weeding and Hoeing Three times (15cmX22cm)	No.	1800	4.05	7290.00
15	Miscellaneous Expenditure	LS			1000
16	Cost of Wages of protection watcher (one protection watcher for six months for plantation area of 10 ha. )				7292
	<b>Total</b>				<b>67300.85</b>

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	Added EPF@13%				
	Added ESI @3.25%				
	of wages component 50% of the total				5468.19
	Added Contractor Profit@7 % total				4711.06
	<b>Net Total</b>				<b>77480.10</b>
<b>3rd Year Plantation</b>					
1	Cleaning of weed/bushes between plantation	Ha.	0.5	1908.14	954.07
2	Raising of plants in Nursery (30cmx45cm)	No.	48	101.57	4875.36
	Raising of plants in Nursery (15cmx22cm)	No.	72	13.38	963.36
3	Re-opening of plts 40x.60 mx.60mx.60m	M3	3.645	81.03	295.35
	Re-opening of plts 60x.45 mx.45mx.45m	M3	5.4675	81.03	443.03
4	Loading and unloading of plants (30X45cm)	No.	44	3.06	134.64
	Loading and unloading of plants (15cmX22cm)	No.	66	0.45	29.70
5	Carriage of plants (30X45cm)	No.	44	25.44	1119.36
	Carriage of plants (15cmX22cm)	No.	66	2.53	166.98
6	Planting of plants (30X45cm)	No.	44	16.22	713.68
	Planting of plants (15cmX22cm)	No.	66	6.09	401.94
7	Irrigation two times	No.	2000	6.09	12180.00
8	Weeding and Hoeling (30X45cm)	No.	400	6.09	2436.00
	Weeding and Hoeling (15cmX22cm)	No.	600	4.05	2430.00
9	Miscellaneous Expenditure	LS			1000
10	Cost of Wages of protection watcher (one protection watcher for three months for plantation area of 10 ha. )	LS			3646
	<b>Total</b>				<b>31789.48</b>
	Added EPF@13%				
	Added ESI @3.25%				
	of wages component 50% of the total				2582.89
	Added Contractor Profit@7 % total				2225.26
	<b>Net Total</b>				<b>36597.63</b>
<b>4th Year Plantation</b>					
1	Cost of Wages of protection watcher (one protection watcher for three months for plantation area of 10 ha. )				3646
2	Cleaning , pruning, Spacing and thinning	LS		0	5000
3	Miscellaneous Expenditure	LS			2500
	<b>Total</b>				<b>11146</b>
	Added EPF@13%				
	Added ESI @3.25%				
	of wages component 50% of the total				905.61
	Added Contractor Profit@7 % total				780.22
	<b>Net Total</b>				<b>12831.83</b>
<b>5th Year Plantation</b>					
1	Cost of Wages of protection watcher (one protection watcher for three months for plantation area of 10 ha. )				3646
2	Cleaning , pruning, Spacing and thinning	LS		0	5000
3	Miscellaneous Expenditure	LS			2500
	<b>Total</b>				<b>11146</b>
	Added EPF@13%				
	Added ESI @3.25%				
	of wages component 50% of the total				905.61
	Added Contractor Profit@7 % total				780.22
	<b>Net Total</b>				<b>12831.83</b>
<b>6th Year Plantation</b>					
1	Cost of Wages of protection watcher (one protection watcher for three months for plantation area of 10 ha. )				3646
2	Cleaning , pruning, Spacing and thinning	LS		0	5000
3	Miscellaneous Expenditure				2500
	<b>Total</b>				<b>11146</b>
	Added EPF@13%				
	Added ESI @3.25%				
	of wages component 50% of the total				905.61
	Added Contractor Profit@7 % total				780.22
	<b>Net Total</b>				<b>780.22</b>



Net Total			
7th Year Plantation			
			12831.83
1	Cost of Wages of protection watcher (one protection watcher for three months for plantation area of 10 ha.)		
2	Cleaning , pruning, Spacing and thinning	LS	3646
3	Misscellaneous Expenditure		5000
	Total		2500
	Added EPF@13%		11146
	Added ESI @3.25%		
	of wages component 50% of the total		905.61
	Added Contractor Profit@7 % total		780.22
	Net Total		12831.83
8th Year Plantation			
1	Cost of Wages of protection watcher (one protection watcher for three months for plantation area of 10 ha.)		3646
2	Cleaning , pruning and Spacing	LS	5000
3	Misscellaneous Expenditure		2500
	Total		11146
	Added EPF@13%		
	Added ESI @3.25%		
	of wages component 50% of the total		905.61
	Added Contractor Profit@7 % total		780.22
	Net Total		12831.83
9th Year Plantation			
1	Cost of Wages of protection watcher (one protection watcher for three months for plantation area of 10 ha.)		3646
2	Cleaning , pruning, Spacing and thinning	LS	5000
3	Misscellaneous Expenditure		2500
	Total		11146
	Added EPF@13%		
	Added ESI @3.25%		
	of wages component 50% of the total		905.61
	Added Contractor Profit@7 % total		780.22
	Net Total		12831.83
10th Year Plantation			
1	Cost of Wages of protection watcher (one protection watcher for three months for plantation area of 10 ha.)		3646
2	Cleaning , pruning, Spacing and thinning	LS	5000
3	Misscellaneous Expenditure		2500
	Total		11146
	Added EPF@13%		
	Added ESI @3.25%		
	of wages component 50% of the total		905.61
	Added Contractor Profit@7 % total		780.22
	Net Total		12831.83
ABSTRACT OF COST NORMS			
YEAR OF PLANTATION	Cost (in Rs.)	Cost per plant	
FIRST YEAR PLANTATION	192869.40	192.87	
SECOND YEAR PLANTATION	77480.10	77.48	
THIRD YEAR PLANTATION	36597.63	36.60	
FOURTH YEAR PLANTATION	12831.83	12.83	
FIVE YEAR PLANTATION	12831.83	12.83	
SIX YEAR PLANTATION	12831.83	12.83	
SEVEN YEAR PLANTATION	12831.83	12.83	
EIGHT YEAR PLANTATION	12831.83	12.83	
NINE YEAR PLANTATION	12831.83	12.83	
TEN YEAR PLANTATION	12831.83	12.83	
TOTAL	396769.97	396.77	

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