

Full Title of the Project: Diversion of 7.663 ha. of Forest land for Green Highway starts from jalbehra (KM 0.000) Near Ismailabad to Patti Kankra (KM 22.850) near Shahbad in the State of Haryana under Bharatmala priyojana under Forest Division & Distt. Kurukshetra.

File No. : FP/HR/ROAD/151373/2022

Date of Proposal:

CHECK LIST SERIOL: NUMBER -18

"SCHEME FOR COMPENSATORY AFFORESTATION"

Name of the Forest/Reach to be diverted :

Full Title of the Project: Diversion of 7.663 ha. of Forest land for Green Highway starts from jalbehra (KM 0.000) Near Ismailabad to Patti Kankra (KM 22.850) near Shahbad in the State of Haryana under Bharatmala priyojana under Forest Division & Distt. Kurukshetra.  
Forest Area = .....7.663 ..... ha.

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

Division & District Kurukshetra

Tehsil & Range : Pehowaa

C.A. Site name : **RF Badason Ract. 40,51,52,54,55,61& 62.**

Area to be Afforested:-

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

l) 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  $4m \times 2\frac{1}{2}m$  spacing at the wage rate of Rs. 347.08/- per day as under :-



**Cost Norms of Plantation of Tall Plants under Compensatory Afforestation during the year 2023-24 at wages rate Rs. 393.97/- per day**

No. of Plants = 1000, spacing = 4m×4m, physical area per 1000 plants = 1.6 ha.

Sr.	Item of Work	Unit	Qty.	Rate/Unit	Amt.
<b>1year plantation (2023-24)</b>					
1	Jungle Clearance	ha.	1.6	5909.55	9455.28
2	Raising of plants in Nursery (30cm×45cm) : 1000+20% extra	Nos	1200	100.17	120204.00
3	Dag bailing and alignment	RKM	3	275.77	827.31
4	Digging of pits 1000×0.60m×0.60m×0.60m	m3	216	167.43	36164.88
5	Loading and unloading of plants in tractor/cart	Nos	1100	2.97	3267.00
6	Carriage of plants by Tractor/Trolley	Nos	1100	24.75	27225.00
7	Carriage of plants from pit to pit	Nos	L/s		2707.55
8	Planting of Plants including 10% replacement	Nos	1100	15.77	17347.00
9	Application of fertilizer (one time DAP + one time urea)	Nos	2000	0.78	1560.00
10	Irrigation five times	Nos	5000	5.92	29620.50
11	First weeding & hoeing	Nos	1000	7.86	7860.00
12	Subsequent weeding and hoeing two times	Nos	2000	5.92	11840.00
13	New long fencing	Mtr.	100	17.46	1746.00
14	Chhapa binding around plants	No.	1000	17.48	17480.00
15	Miscellaneous expenditure	LS			2166.04
16	Cost of wages of protection watcher ( one protection watecher for six months for plantation area of 10 ha.)	LS			7090.53
	<b>Sub Total</b>				<b>296561.09</b>
	<b>Added EPF @ 13%</b>				
	<b>Added ESI @ 3.25%</b>				
	<b>of wages component 50% of total</b>				<b>24095.59</b>
	<b>Added contractor profit @ 7% of total</b>				<b>20759.28</b>
	<b>Total</b>				<b>341415.95</b>
<b>Maintenance of IInd Year</b>					
1	Jungle Clearance	ha.	0.5	5909.55	2954.78
2	Raising of plants in Nursery	Nos	240	100.17	24040.80
3	Re opening of pits 200x0.60cmX0.60cmX0.60cm	m3	43.2	78.79	3403.73
4	Loading and unloading of plants	No.	220	2.96	651.20
5	Carriage of plants	No.	220	24.75	5445.00
6	Carriage of plants pit to pit	No.	L/s		1083.02
7	Planting of plants	No.	220	15.77	3469.40
8	Irrigation three times	No.	3000	5.92	17760.00



9	Chhapa binding around plants	No.	500	17.48	8740.00
10	Weeding and hoeing twice	No.	1000	5.92	5920.00
11	Miscellaneous expenditure	LS			1176.16
12	Cost of wages of protection watcher				7090.53
	<b>Sub-Total</b>				<b>81734.61</b>
	<b>Added EPF @ 13%</b>				
	<b>Added ESI @ 3.25%</b>				
	<b>of wages component 50% of total</b>				<b>6640.94</b>
	<b>Added contractor profit @ 7% of total</b>				<b>5721.42</b>
	<b>Total</b>				<b>94096.97</b>
	<b>Maintenance of IIIrd Year</b>				
1	Jungle Clearance	ha.	0.5	5909.55	2954.78
2	Raising of plants in Nursery	Nos	120	100.17	12020.40
3	Re opening of pits 100x0.60cmX0.60cmX0.60cm	m3	21.6	78.79	1701.86
4	Loading and unloading of plants	No.	110	2.96	325.60
5	Carriage of plants	No.	110	24.75	2722.50
6	Carriage of plants pit to pit	No.	L/s		541.51
7	Planting of plants	No.	100	15.77	1577.00
8	Irrigation two times	No.	2000	4.94	9880.00
9	Chhapa binding around plants	No.	300	17.48	5244.00
10	Weeding and hoeing twice	No.	1000	5.92	5920.00
11	Miscellaneous expenditure	LS			909.74
12	Cost of wages of protection watcher				7090.53
	<b>Sub-Total</b>				<b>50887.92</b>
	<b>Added EPF @ 13%</b>				
	<b>Added ESI @ 3.25%</b>				
	<b>of wages component 50% of total</b>				<b>4134.64</b>
	<b>Added contractor profit @ 7% of total</b>				<b>3562.15</b>
	<b>Total</b>				<b>58584.72</b>
	<b>Maintenance of 4th Year</b>				
1	Jungle Clearance	ha.	0.5	1855.67	927.84
2	Cleaning, pruning and spacing	Ls		0.00	3818.73
3	Miscellaneous expenditure				4703.55
	<b>Sub-Total</b>				<b>9450.12</b>
	<b>Added EPF @ 13%</b>				
	<b>Added ESI @ 3.25%</b>				
	<b>of wages component 50% of total</b>				<b>767.82</b>
	<b>Added contractor profit @ 7% of total</b>				<b>661.51</b>
	<b>Total</b>				<b>10879.44</b>
	<b>Maintenance of 5th Year</b>				
1	Harrowing in Plantation	ha.	0.5	1855.67	927.84
2	Cleaning, pruning and spacing	Ls		0.00	3818.73
3	Miscellaneous expenditure				4703.55



	<b>Sub-Total</b>				<b>9450.12</b>
	<b>Added EPF @ 13%</b>				
	<b>Added ESI @ 3.25%</b>				
	<b>of wages component 50% of total</b>				<b>767.82</b>
	<b>Added contractor profit @ 7% of total</b>				<b>661.51</b>
	<b>Total</b>				<b>10879.44</b>
	<b>Maintenance of 6th Year</b>				
1	Harrowing in Plantation	ha.	0.5	1855.67	927.84
2	Cleaning, pruning and spacing	Ls		0.00	3818.73
3	Miscellaneous expenditure				4703.55
	<b>Sub-Total</b>				<b>9450.12</b>
	<b>Added EPF @ 13%</b>				
	<b>Added ESI @ 3.25%</b>				
	<b>of wages component 50% of total</b>				<b>767.82</b>
	<b>Added contractor profit @ 7% of total</b>				<b>661.51</b>
	<b>Total</b>				<b>10879.44</b>
	<b>Abstract of Cost Norms</b>				
	<b>Year of Plantation</b>	<b>Cost (in Rs.)</b>		<b>Cost per plant</b>	
	Ist Year Plantation	341415.95		341.416	
	2nd Year Plantation	94096.97		94.09697	
	3rd Year Plantation	58584.72		58.58472	
	4th Year Plantation	10879.44		10.87944	
	5th Year Plantation	10879.44		10.87944	
	6th Year Plantation	10879.44		10.87944	
	<b>Total</b>	<b>526735.98</b>		<b>526.736</b>	



Area to be diverted			In ha.		
No. of Plants to be felled			7.6630		
Plants to be damaged			501		
Plants to be planted			0		
Area to be planted			15326		
Additional CA in lieu of plants to be damaged (Double the plants to be damaged)			15.33		
			0		
Sr. No.	DESCRIPTION		RATE	Per	TOTAL AMOUNT (Rs.)
A	Compensatory Afforestation Charges (SYL KM 12.5-16.5 R/side)	No. of Plants			
	(1) 1st Year Cost of Afforestation	15326	341.42	Per Plants	5232603
	(2) 2nd Year Maintenance		94.10	Per Plants	1442177
	(3) 3rd Year Maintenance		58.58	Per Plants	897797
	(4) 4th Year Maintenance		10.88	Per Plants	166747
	(5) 5th Year Maintenance		10.88	Per Plants	166747
	(6) 6th Year Maintenance		10.88	Per Plants	166747
	(7) 7th Year Maintenance		10.88	Per Plants	166747
	(8) 8th Year Maintenance		10.88	Per Plants	166747
	(9) 9th Year Maintenance		10.88	Per Plants	166747
	(10) 10th Year Maintenance		10.88	Per Plants	166747
	(11) Barbed wire fencing charges (in Rkm)	0	200000.12	Per Rkm.	0
	Total Charges				8739805
	Supervisory / Overhead / Miscellaneous Charges		10% on the total CA charges		873980
	Total (A) CA Charges				9613785
B	Additional Compensatory Afforestation Charges				
	(1) 1st Year Cost of Afforestation	0	341.42	Per Plants	0
	(2) 2nd Year Maintenance		94.10	Per Plants	0
	(3) 3rd Year Maintenance		58.58	Per Plants	0
	(4) 4th Year Maintenance		10.88	Per Plants	0
	(5) 5th Year Maintenance		10.88	Per Plants	0
	(6) 6th Year Maintenance		10.88	Per Plants	0
	(7) 7th Year Maintenance		10.88	Per Plants	0
	(8) 8th Year Maintenance		10.88	Per Plants	0
	(9) 9th Year Maintenance		10.88	Per Plants	0
	(10) 10th Year Maintenance		10.88	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)				
	Small plants 470 damage		600	Per Plants	282000
	-----				0
	<b>Total (D+E)</b>				
F	Felling charges = m <sup>3</sup>	427.81	1200	m <sup>3</sup>	513372
	<b>Grand Total (A+B+C+D+E+F+G) to be deposited in CAMPA Fund</b>				<b>10409157</b>

**5. Technical details:-**

Technical detail of Compensatory Afforestation Scheme are as follows:-

- a) General Detail:- Plantation will be done with 3 strand barbed wire in
- b) Spacing:- 4 x 2½ metre
- c) Species:- Neem, Bakain, Papri etc.
- d) Plantation method:- Tall Plantation
- e) Soil and Moisture Conservation work:- 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:- Kurukshetra

Date:-

Divisional Forest Officer  
Kurukshetra Forest Division  
Kurukshetra

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



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

Name of the Forest/Reach to be diverted :

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Forest Area = .....7.663 ..... ha.

NPV calculation sheet				
	Rate	Ha.		In ha.
Area to be diverted				7.663
NPV of the forest land	957780	7.663	Per ha.	7339468
Total Amt. of NPV				7339468

Place:- Kurukshetra  
Date:-

  
Divisional Forest Officer,  
Kurukshetra Forest Division,  
KURUKSHETRA  
Kurukshetra