

Full Title of the Project : Diversion of 0.5352 hectare forest land for construction of 132 KV S/C transmission line from 220 KV sub station Deroli Ahir to Seka through various strip forest areas under Forest Division and Distt. Mahendergarh, Haryana.
File No. : FP/HR/Trans/142899/2021
Date of Proposal : 30-05-2021

CHECK LIST SERIAL NUMBER :- 18

"SCHEME FOR C.A. " (Model-1)

Name of the Forest/Reach to be diverted for construction of 132 KV S/C transmission line from 220 KV sub station Deroli Ahir to Seka through various strip forest areas under Forest Division and Distt. Mahendergarh, Haryana.

Forest Area = 0.5352 ha.

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

Division: Mahendergarh District: Mahendergarh Range: Nangal Chaudhary C.A.

Site Name: Sareli Bund to be afforested:-

- i) Whether the site selected for Compensatory Afforestation is a Land bank or
Not: - **No, the site selected for compensatory afforestation is not a land bank.**
- ii) If the CA site is other than the land bank, reasons are given: - There is no land bank in District Mahendergarh. **Plantation will be done Protected Forest area.**
In case of non-forest area identified for CA, then what is the distance of CA site from the adjoining forest boundary:-
- iii) Soil type Sandy Loam
- iv) Topography a. Hilly/Undulating/Plain:
b. Slope: - Steep/Medium/Gentle
- v) Whether the area is bearing any root stock of vegetation:-A.tortilis, Mesquite.

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 Estimated cost of plantation & Maint. of 2368 Plants for next ten year by revising the existing CA Scheme of 625.40 Rs. per plants from wage rate Rs. 326.82/- per day to Rs. 382/- per day 791.05 per plants in the year 2021-22 as under:-

S.No.	Year	Rate Per Plant
1	1 st Year Plantation	Rs. 348.59/- Per Plant
2	2 nd Year Plantation	Rs. 120.37/- Per Plant
3	3 rd Year Plantation	Rs. 71.00/- Per Plant
4	4 th Year Plantation	Rs. 14.69/- Per Plant
5	5 th Year Plantation	Rs. 16.15/- Per Plant
6	6 th Year Plantation	Rs. 17.78/- Per Plant
7	7 th Year Plantation	Rs. 19.55/- Per Plant
8	8 th Year Plantation	Rs. 21.51/- Per Plant
9	9 th Year Plantation	Rs. 23.67/- Per Plant
10	10 th Year Plantation	Rs. 26.04/- Per Plant
Total Cost		Rs. 679.35

Area to be Diverted : 0.5352 ha.

No. of Trees to be felled : 218

No. of Plants to be damaged :94

Area to be planted under normal CA : **2.180 ha.** (Ten time of damaged tree)

Plants to be Planted under normal CA : **2180** (@ 1000 plants per ha.)

Additional C.A. in lieu of plants to be damaged (Double the plants to be damaged)= **188** Plants

Area to planted under Addl. CA : **0.188** ha. (@ 1000 plants per ha.)

Total No. of plants to be planted (CA+Addl.CA) : **2368**

Total Area to be planted (CA+Addl.CA) : **2.368** ha. (@ 1000 plants per ha.)

A	Compensatory Afforestation Charges	No. of Plants	Rate	Total Amount (Rs.)
	(1) 1 st Year cost of afforestation	2180	Rs. 348.59/- Per Plant	759931
	(2) 2 nd Year maintenance	2180	Rs. 120.37/- Per Plant	262401
	(3) 3 rd Year maintenance	2180	Rs. 71.00/- Per Plant	154772
	(4) 4 th Year maintenance	2180	Rs. 14.69/- Per Plant	32026
	(5) 5 th Year Maintenance	2180	Rs. 16.15/- Per Plant	35216
	(6) 6 th Year Maintenance	2180	Rs. 17.78/- Per Plant	38768
	(7) 7 th Year Maintenance	2180	Rs. 19.55/- Per Plant	42623
	(8) 8 th Year Maintenance	2180	Rs. 21.51/- Per Plant	46896
	(9) 9 th Year Maintenance	2180	Rs. 23.67/- Per Plant	51591
	(10) 10 th Year Maintenance	2180	Rs. 26.04/- Per Plant	56769
	(11) Barbed wire fencing charge	3 rkm	Rs. 200000/- Per RKM	600000
	Total charges			2080993

	Supervisory/Overhead/Miscellaneous Charges		10% on the total CA charges	208099
	Sub Total (A) C.A. charges			2289092
B	Additional Compensatory Afforestation Charges	No. of Plants	Rate	Total Amount (Rs.)
	(1) 1 st Year cost of afforestation	188	Rs. 348.59/- Per Plant	65535
	(2) 2 nd Year maintenance	188	Rs. 120.37/- Per Plant	22629
	(3) 3 rd Year maintenance	188	Rs. 71.00/- Per Plant	13347
	(4) 4 th Year maintenance	188	Rs. 14.69/- Per Plant	2762
	(5) 5 th Year Maintenance	188	Rs. 16.15/- Per Plant	3037
	(6) 6 th Year Maintenance	188	Rs. 17.78/- Per Plant	3343
	(7) 7 th Year Maintenance	188	Rs. 19.55/- Per Plant	3676
	(8) 8 th Year Maintenance	188	Rs. 21.51/- Per Plant	4044
	(9) 9 th Year Maintenance	188	Rs. 23.67/- Per Plant	4449
	(10) 10 th Year Maintenance	188	Rs. 26.04/- Per Plant	4896
	(11) Barbed wire fencing charge	0.752 rkm	Rs. 200000/- Per RKM	150400
	Sub Total (B) Total addl. C.A. charges			278118
C	Penal CA			
D	Catchments Area Treatment			
	Soil and Moisture Conservation charges			0
	Sub Total (D)			0
E	Safety Zone			
F	Additional Charges			
	i) Chain link fencing		Meter	0
	ii) Pipeline fitting for multiple water points		L.S.	0
	iii) survey & demarcation		L.S.	20000
	iv) Plantation Sine board		L.S.	5000
	Sub Total (F)			25000
G	Felling charges	113.78	1200 per cum	136536
	Grand Total (A+B+C+D+E+F+G+H) to be deposited in CAMPA Fund			2728746

2. **Technical details :-**

Technical details of Compensatory Afforestation Scheme are as follows :-

a) General Details :- Plantation will be done with 3 strand barbed wire in Protected Forest area

b) Spacement :- 4 x 4 meter

- (c) Species :- **Azadirachta indica, Holoptelea integrifolia, Ficus benghalensis, Ficus religiosa, Zyzyphus mauritiana, Albizia lebbeck etc.**
- (d) 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 :- **(M & E)**
- (h) Any other information: - **N.A.**


Divisional Forest Officer
Mahendergarh Forest Division

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

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NPV Calculation Sheet

	Description	Total Area	Rate	Total Amount (RS.)
A	Net Present Value of Forest Land to be diverted	0.5352	Rs. 1228590 (Lacs/Ha.	657541/-
Diverted Land Details				
	Project Land Category	Canditions		
1	Eco Class	III		
2	Canopy Density	Very Dense/Dense/Open		
3	Density of Vegetation	0.5		
4	Is Forest Area in National Park	10 times of NPV	NA	
5	Wild Life Sanctuary	5 times of NPV	NA	
6	Project type wise	50% for wind power project/OFC	NA	
	Total NPV Payable			657541/-

Place: Mahendergarh
Date: 20.09.2022

Name :  Rohtas Singh, H.F.S.
Designation : Divisional Forest Officer