

**Full Title of the Project:** Request for forest clearance for construction work of 220 KV D/C line from 765 KV substation PGCIL Bhiwani to 220 KV substation Isharwal (Against Risk Purchase) against contract No. HDP-2417/REC-248/XEN/WB dated 09.07.19 on turnkey basis.

**File No. :** FCA/S/FP/HR/TRANS/55494/2020.

**Date of Submission:** 11.112020.

**CHECK LIST SERIAL NUMBER:-18**

**"SCHEME FOR C.A."**

**Name of the Forest/Reach to be diverted** 220 KV D/C line from 765 KV substation PGCIL Bhiwani to 220 KV substation Isharwal.  
**Forest Area = 0.75047 ha.**

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

- Division: \_\_\_\_\_ District : \_\_\_\_\_
- Area to be Afforested :- 2.812 ha.
- a) Whether the site selected for Compensatory Afforestation is a Land bank (Yes or No): No.
- b) If the CA site is other than the land bank, reasons be given:-  
 In case of non-forest area identified for CA, then what is the distance of CA site from the adjoining forest boundary :-
- i) Soil type: **Good**
- 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 Tall Plants norms at 4m x 2½m spacing at the wage rate of Rs. 382 per day as under:-

Year	Rate per Plant
1 <sup>st</sup> Year cost of afforestation	Rs. 400 Per Plant
2 <sup>nd</sup> Year maintenance	Rs. 98 Per Plant
3 <sup>rd</sup> Year maintenance	Rs. 61 Per Plant
4 <sup>th</sup> Year maintenance	Rs. 25 Per Plant
5 <sup>th</sup> Year maintenance	Rs. 27 Per Plant
6 <sup>th</sup> Year maintenance	Rs. 30 Per Plant
7 <sup>th</sup> Year maintenance	Rs. 33 Per Plant
8 <sup>th</sup> Year maintenance	Rs. 36 Per Plant
9 <sup>th</sup> Year maintenance	Rs. 40 Per Plant
10 <sup>th</sup> Year maintenance	Rs. 44 Per Plant
<b>Total</b>	<b>Rs.794</b>

Area to be Diverted : 0.75047 ha.

No. of Trees to be felled : 242

No. of Plants to be damaged : 196.

Area to be planted under normal CA : 2.42 (Double the area to be diverted)

Plants to be Planted under normal CA : 2420 nos. (@ 1000 plants per ha.)

Additional C.A. : 0.392 ha. in lieu of plants to be damaged (Double the plants to be damaged)= 392 Plants

Area to planted under Addl. CA : 0 (@ 1000 plants per ha.)

**Total No. of plants to be planted (CA) 2812**

**Total Area to be planted (CA+Addl.CA) : 2.812 ha. (@ 1000 plants per ha.)**

S.No	DESCRIPTION		RATE	TOTAL AMOUNT (Rs.)
A	Compensatory afforestation Charges	No. of Plants		
	(1) 1 <sup>st</sup> Year cost of afforestation	2420	Rs. 400/- Per Plant	968000
	(2) 2 <sup>nd</sup> Year maintenance		Rs. 98/- Per Plant	237160
	(3) 3 <sup>rd</sup> Year maintenance		Rs. 61/- Per Plant	147620
	(4) 4 <sup>th</sup> Year maintenance		Rs. 25/- Per Plant	60500
	(5) 5 <sup>th</sup> Year maintenance		Rs. 27/- Per Plant	65340
	(6) 6 <sup>th</sup> Year maintenance		Rs. 30/- Per Plant	72600
	(7) 7 <sup>th</sup> Year maintenance		Rs. 33/- Per Plant	79860
	(8) 8 <sup>th</sup> Year maintenance		Rs. 36/- Per Plant	87120
	(9) 9 <sup>th</sup> Year maintenance		Rs. 40/- Per Plant	96800
	(10) 10 <sup>th</sup> Year maintenance		Rs. 44/- Per Plant	106480
	(11) Barbed wire fencing charge= 2420/250= 9.68 Both sides = 9.68 X 2 = 19.36 RKM		Rs.200000/- Per RKM	3872000
	Total Charges			<b>5793480</b>
Supervisory / Overhead / Miscellaneous Charges		10% on the CA charges	579348	
<b>Sub Total (A) Total C.A. Charges</b>			<b>6372828</b>	
B	<b>Additional Compensatory Afforestation Charges</b>			
	(1) 1 <sup>st</sup> Year cost of afforestation	392	Rs. 400/- Per Plant	156800
	(2) 2 <sup>nd</sup> Year maintenance		Rs. 98/- Per Plant	38416
	(3) 3 <sup>rd</sup> Year maintenance		Rs. 61/- Per Plant	23912
	(4) 4 <sup>th</sup> Year maintenance		Rs. 25/- Per Plant	9800
	(5) 5 <sup>th</sup> Year maintenance		Rs. 27/- Per Plant	10584

(6) 6 <sup>th</sup> Year maintenance		Rs. 30/- Per Plant	11760
(7) 7 <sup>th</sup> Year maintenance		Rs. 33/- Per Plant	12936
(8) 8 <sup>th</sup> Year maintenance		Rs. 36/- Per Plant	14112
(9) 9 <sup>th</sup> Year maintenance		Rs. 40/- Per Plant	15680
(10) 10 <sup>th</sup> Year maintenance		Rs. 44/- Per Plant	17248
(11) Barbed wire fencing charge= 392/250=1.568 Both sides = 1.568 X 2 = 3.136 RKM		Rs.200000/- Per RKM	627200
<b>Sub Total (B) Total Addl. C.A. Charges</b>			<b>938448</b>
C	Penal C.A.	-	
D	<b>Catchment Area Treatment</b>		
	Soil and Moisture Conservation charges	30% of the Total CA	<b>2193383</b>
<b>Sub Total (D)</b>			<b>0</b>
E	Safety Zone		<b>0</b>
F	<b>Additional Charges</b>		
	Survey & Demarcation with DGPS ( 4 days )	@ Rs. 15000/per day	<b>60000</b>
	Protection & Patrolling Vehicle (MUV/SUV 4X4) Mahindra Scorpio	Cost @ Rs. 18 Lakhs	<b>1800000</b>
<b>Sub Total (F)</b>			<b>0</b>
G	Net Present Value of Forest Land to be diverted = 0.75047 ha.	Rs. 887000/- per ha.	<b>665667</b>
H	Felling charges = 161.29 m <sup>3</sup>	Rs.1400 /- per m <sup>3</sup>	<b>225806</b>
I	Plantation damage charges = 0 Plants	Rs. 236/- per plant	<b>0</b>
<b>GRAND TOTAL (A+B+C+D+E+F+G+H+I) to be deposited in CAMPA Fund</b>			<b>12256132</b>

2. **Technical details:-**

Technical details of Compensatory Afforestation Scheme are as follows:-

- General Details:- Plantation will be done with 3 strand barbed wire.
- Spacing:- 4 x 2½ meter
- Species:- .....
- Plantation Method :- ..... Plantation
- Soil and Moisture Conservation Works
- Protection (Fencing, Watch man, People's Participation etc.): - Fencing
- Proposed Monitoring Mechanism:- (M&E),
- Any Other information:- Nil.

Date:

Place Bhiwani

VKL  
**Divisional Forest Officer**  
 Deputy Conservator of Forest,  
**BHIWANI FOREST DIVISION**  
 Bhiwani **BHIWANI**