

Full Title of the project: Diversion Of Forest Land of 0.0086 Ha. for access to HPCL retail outlet on Yamuna Nagar-Jathlana road at village Shadipur, under Forest Division and Distt. Yamunanagar Haryana.

Online Proposal No. FP/HR/approach/36575/2018
Date of Proposal :

CHECK LIST SERIAL NUMBER:-18
"SCHEME FOR C.A."

Name of the Forest/Reach to be diverted
Forest Area =0.0086 hac.

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

Division:Yamunanagar District : Yamunanagar

Tehsil: Jagadhri

C.A. Site name Devdhar PF

Area to be Afforested :- 0.100 hac.

- 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: Sandy to 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 Tall Plants norms at 4m x 2.5m spacing at the wage rate of Rs. 363.77 per day as under:-

Cost Statement Of Plantation (Tall Plants) model under Compensatory Afforestation					
No. of Plants per ha.=500 TP , spacing=4m Row to Row					
Sr. No.	Item of Work	Unit	Qty.	Rate/Unit	Amount
1st year expenditure as wage rate Rs. 363.77 per day					
1	Jungle clearance.	Ha	0.5	5454.30	2727.15
2	Kana/ lantana Cutting.	Ha	0.25	9094.25	2273.56
3	Dag bailing and alignment.	RK M	2	254.54	509.08

4	Digging of pits 500x0.6mx0.6mx0.6m.	m3	108	154.54	16690.36
5	Purchase of good Soil for filling in pits 500x0.6mx0.6mx0.4m.	m3	72	419.23	30184.90
6	Carriage of Soil by hired tractor upto 5 Km including Loading , unloading .	m3	72	497.76	35838.53
7	Raising of plants in nursery P.Bag Size (30cmx45cm) : 500+20% extra.	No.	600	101.66	60998.66
8	Loading/ Unloading of plants In tractor/cart	No.	600	2.74	1641.3
9	Carriage of plants.	No.	600	22.84	13702.69
10	Planting of seedling including 10% replacement.	No.	550	14.56	8006.86
11	Fencing of Plants with six stick including cutting carriage of fencing material.	No.	500	54.56	27281.7
12	Cost of fertilizer, manures, insecticides etc including application.	No.	500	20.96	10480.87
13	Irrigation eight times.	No.	400 0	5.46	21842.13
14	Purchase of water	No.	400 0	1.33	5324.28
15	First weeding & hoeing.	No.	500	7.26	3631.62
16	Subsequent weeding & hoeing six times	No.	300 0	5.46	16381.6
17	Grass cutting from one meter wide strip 5 Times in 500 meter length in per Ha.	m2	250 0	3.64	9094.25
	Total				266609.54
18	Added EPF @ 13% and ESI @ 3.25%of wages component				27800.22
19	Added contractor profit @ 10% of total				26660.95
	Net Total				321070.71
2nd year maintainance with 20% Replacement @ Wage rate Rs.400.15 per day anticipating 10% increase.					
1	Raising of plants in nursery (30cmx45cm) : 100+20% extra	No.	120	104.75	12570.16
2	Re-opening of pits 100x0.6mx0.6mx0.5m	m3	18	80.63	1451.287
3	Loading and unloading of plants	No.	100	3.03	302.7313
4	Carriage of plants	No.	100	25.32	2531.839
5	Planting of plants	No.	100	16.13	1613.17
6	Fencing of Plants with six stick Including cutting carriage of fencing material.	No.	100	60.03	6003.3
7	Irrigation five times	No.	250 0	6.05	15136.56
8	Purchase of water	No.	250 0	1.47	3666.3

9	Sub. Weeding and hoeing five times	No.	250 0	6.05	15136.56
10	Grass cutting from one meter wide strip 4 Times in 500 meter length in per Ha.	m2	200 0	4.00	8003
11	Repair of Fencing	No.	400	8.07	3226.34
12	Cost of fertilizer, manures, insecticides etc including application.	No.	500	10.48	5237.57
	Total				74878.82
13	Added EPF @ 13% and ESI @ 3.25% of wages component				10260.31
14	Added contractor profit @ 10% of total				7487.88
	Net Total				92627.02

3rd year maintainance 10% Replacement @ wage rate Rs. 440.17 per day

1	Raising of plants in nursery (30cmx45cm) : 50+20% extra		60	115.28	6916.957
2	Re-opening of pits 50x0.6mx0.6mx0.5m		9	71.16	640.4474
3	Loading and unloading of plants		50	2.67	133.623
4	Carriage of plants		50	22.34	1117.193
5	Planting of plants		50	14.24	712.1322
6	Fencing of Plants with six stick including cutting carriage of fencing material.	No.	100	66.07	6606.74
7	Irrigation four times	No.	200 0	5.34	10689.84
8	Purchase of water	No.	200 0	1.61	3227.91
9	Weeding and hoeing four time	No.	200 0	5.34	10689.84
10	Pruning of 1/3 Lower portion of Plants	No.	400	6.68	2670.365
11	Grass cutting from one meter wide strip 2 Times in 500 meter length in per Ha.	m2	100 0	4.40	4401.7
12	Cost of fertilizer, manures, insecticides etc including application.	No.	500	10.48	5240.12
	Total				53046.87
13	Added EPF @ 13% and ESI @ 3.25% of wages component				7040.8
14	Added contractor profit @ 10% of total				5304.69
	Net Total				65392.36

4th year maintainance 10% Replacement @ wage rate Rs.484.19 per day

1	Raising of plants in nursery		60	115.28	6917
2	Re-opening of pits 50x0.6mx0.6mx0.5m		5.5	103.08	566.9634
3	Loading and unloading of plants		50	3.87	193.3616
4	Carriage of plants		50	32.36	1618.159
5	Planting of plants		50	20.64	1031.786

6	Fencing of Plants with six stick including cutting carriage of fencing material.	No.	50	72.67	3633.52
7	Irrigation two times	No.	100 0	7.74	7744.944
8	Purchase of water	No.	100 0	1.78	1781.65
9	Weeding and hoeing two time	No.	100 0	7.74	7744.944
10	Pruning of 1/3 Lower portion of Plants	No.	400	7.72	3089.593
11	Grass cutting from one meter wide strip 2 Times in 500 meter length in per Ha.	m2	100 0	4.84	4841.9
12	Cost of fertilizer, manures, insecticides etc including application.	No.	500	10.48	5240.15
	Total				44403.97
14	Added EPF @ 13% and ESI @ 3.25% of wages component				5780.23
15	Added contractor profit @ 10% of total				4440.4
	Net Total				54624.6

5th year maintainance at wage rate Rs.532.60 per day

1	Irrigation Two times	No.	100 0	8.50	8502.728
2	Purchase of water	No.	100 0	1.96	1960.56
3	Pruning of 1/3 Lower portion of Plants	No.	400	8.49	3396.898
4	Grass cutting from one meter wide strip 1 Times in 500 meter length in per Ha.	m2	500	5.33	2663
	Total				16523.19
5	Added EPF @ 13% and ESI @ 3.25% of wages component				984.73
6	Added contractor profit @ 10% of total				1652.32
	Net Total				19160.24

6th year maintainance at wage rate Rs.644.45 per day

1	Misc. Expenditure on Cleaning, Pruning and thinning	L/S			7500
	Total				7500
2	Added EPF @ 13% and ESI @ 3.25% of wages component				1218.75
3	Added contractor profit @ 10% of total				750
	Net Total				9468.75

7th year maintainance at wage rate Rs. 708.90 per day

1	Misc. Expenditure on Cleaning, Pruning and thinning	L/S			7500
	Total				7500
2	Added EPF @ 13% and ESI @ 3.25% of wages component				1218.75

3	Added contractor profit @ 10% of total				750
	Net Total				9468.75
8th year maintainance at wage rate Rs. 779.79 per day					
1	Misc. Expenditure on Cleaning, Pruning and thinning	L/S			7500
	Total				7500
2	Added EPF @ 13% and ESI @ 3.25% of wages component				1218.75
3	Added contractor profit @ 10% of total				750
	Net Total				9468.75
9th year maintainance at wage rate Rs.857.77 per day					
1	Misc. Expenditure on Cleaning, Pruning and thinning	L/S			7500
	Total				7500
2	Added EPF @ 13% and ESI @ 3.25% of wages component				1218.75
3	Added contractor profit @ 10% of total				750
	Net Total				9468.75
10th year maintainance at wage rate Rs. 943.555 per day					
1	Misc. Expenditure on Cleaning, Pruning and thinning	L/S			7500
	Total				7500
2	Added EPF @ 13% and ESI @ 3.25% of wages component				1218.75
3	Added contractor profit @ 10% of total				750
	Net Total				9468.75
Abstract of cost norms					
	Year of Plantation	Cost(Rs.)	Cost per plant(Rs.)		
1	1st year plantation	321070.71	642.14		
2	2nd year maintainance	92627.02	185.25		
3	3rd year maintainance	65392.36	130.78		
4	4th year maintainance	54624.60	109.25		
5	5th year maintainance	19160.24	38.32		
6	6th year maintainance	9468.75	18.94		
7	7th year maintainance	9468.75	18.94		
8	8th year maintainance	9468.75	18.94		
9	9th year maintainance	9468.75	18.94		
10	10th year maintainance	9468.75	18.94		
	Total	600218.68	1200.44		

Area to be Diverted : 0.0086 ha.

No. of Trees to be felled : 0

No. of Plants to be damaged : 0

Area to be planted under normal CA : 0.100 ha. (Double the area to be Diverted)

Plants to be Planted under normal CA : 100 Nos.

Additional C.A. in lieu of plants to be damaged (Double the plants to be damaged)= 0

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

Total No. of plants to be planted (CA+Addl.CA) : 100

Total Area to be planted (CA+Addl. CA) :0.100 ha. Or say 100 Plants

(Succeeding years maintenance has been computed taking into account the anticipated increase in wage rates @ 10% per year.)

S.No	DESCRIPTION		RATE	T.Amt. (Rs.)
A	Compensatory Afforestation Charges	No. of Plant		
	(1) 1 st Year cost of afforestation	100	642.14	64214.00
	(2) 2 nd Year maintenance	100	185.25	18525.00
	(3) 3 rd Year maintenance	100	130.78	13078.00
	(4) 4 th Year maintenance	100	109.25	10925.00
	(5) 5 th Year maintenance	100	38.32	3832.00
	(6) 6 th Year maintenance	100	18.94	1894.00
	(7) 7 th Year maintenance	100	18.94	1894.00
	(8) 8 th Year maintenance	100	18.94	1894.00
	(9) 9 th Year maintenance	100	18.94	1894.00
	(10) 10 th Year maintenance	100	18.94	1894.00
	Total Charges			120044
	Supervisory / Overhead / Miscellaneous Charges		10% on the CA charges	12004
	Total (A) C.A. Charge			132048
B	Additional Compensatory Afforestation Charges			
	(1) 1 st Year cost of afforestation	0	642.14	0
	(2) 2 nd Year maintenance	0	185.25	0
	(3) 3 rd Year maintenance	0	130.78	0
	(4) 4 th Year maintenance	0	109.25	0
	(5) 5 th Year maintenance	0	38.32	0
	(6) 6 th Year maintenance	0	18.94	0
	(7) 7 th Year maintenance	0	18.94	0
	(8) 8 th Year maintenance	0	18.94	0
	(9) 9 th Year maintenance	0	18.94	0
	(10) 10 th Year maintenance	0	18.94	0
	Total (B) Addl. C.A. Charges			0
C	Penal C.A.		-	0

Catchment Area Treatment				
D	Soil and Moisture Conservation charges	30% of the Total CA		39614
	Total (D)			39614
E	Safety Zone (if required)			
F	Additional Charges (if required)	Qty	Rate	0
	Total (F)			
G	Net Present Value of Forest Land to be diverted		Rs. 887000/- per ha.	7628
H	Felling charges	Vol. M ³ 0.00	Rs. 1400 /- per m ³	0
I	Other Charges			
	Grand Total (A+B+C+D+E+F+G+H+I) to be deposited in CAMPA Fund			179290


2. **Technical details:-**

Technical details of Compensatory Afforestation Scheme are as follows:-

- General Details:- Plantation will be done with six stick fencing.
- Spacing:- 4 × 2.5 meter
- Species:- Neem, Pahari Papri, Shisham, Jamun, Gullar, Arjun
- Plantation Method :- Tall Plants Plantation
- Soil and Moisture Conservation Works
- Protection (Fencing, Watch man, People's Participation etc.): - Watchman
- Proposed Monitoring Mechanism:- (M&E),
- Any Other information:- Nil.

Place:

Dated :


Dy. Conservator of Forests
Yamunanagar Forest Division,
Yamunanagar

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