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Full Title of the project: Diversion of 0.346 hac. of Forest land for widening & strengthening of Radour-Jathlana Road to Mandhar road Km 0.00-1.90, under forest Division and Distt. YNR. Haryana.

Online Proposal No. FP/HR/Road/42014/2019

Date of Proposal :

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

Name of the Forest/Reach to be diverted

Forest Area =0.346 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 : **Potli TC**

Area to be Afforested :- 0.692 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. 347.08 per day as under:-

Sr. No.	Item of Work	Unit	Qty.	Rate/Unit	Amount
1st year expenditure as wage rate Rs. 347.08 per day					
1	Jungle clearance.	Ha	0.5	5204.05	2602.03
2	Kana/ lantana Cutting.	Ha	0.25	8677	2169.25
3	Dag bailing and alignment.	RKM	2	242.86	485.72
4	Digging of pits 500x0.6mx0.6mx0.6m.	m3	108	147.45	15924.6
5	Purchase of good Soil for filling in pits 500x0.6mx0.6mx0.4m.	m3	72	400	28800.00
6	Carriage of Soil by hired tractor upto 5 Km including Loading , unloading .	m3	72	474.92	34194.24

7	Raising of plants in nursery P.Bag Size (30cmx45cm) : 500+20% extra.	No.	600	97	58200
8	Loading/ Unloading of plants in tractor/cart	No.	600	2.61	1566
9	Carriage of plants.	No.	600	21.79	13074
10	Planting of seedling including 10% replacement.	No.	550	13.89	7639.5
11	Cost of fertilizer, manures, insecticides etc including application.	No.	500	20	10000
12	Irrigation eight times.	No.	4000	5.21	20840
13	Purchase of water	No.	4000	1.27	5080
14	First weeding & hoeing.	No.	500	6.93	3465
15	Subsequent weeding & hoeing six times	No.	3000	5.21	15630
16	Grass cutting from one meter wide strip 5 Times in 500 meter length in per Ha.	m2	2500	3.47	8677
	Total				228347.34
17	Added EPF @ 13% and ESI @ 3.25% of wages component				22294.85
18	Added contractor profit @ 10% of total				22834.73
	Net Total				273476.92

2nd year maintainance with 20% Replacement @ Wage rate Rs.382 per day anticipating 10% increase.

1	Raising of plants in nursery (30cmx45cm) : 100+20% extra	No.	120	100	12000
2	Re-opening of pits 100x0.6mx0.6mx0.5m	m3	18	76.97	1385.46
3	Loading and unloading of plants	No.	100	2.89	289
4	Carriage of plants	No.	100	24.17	2417
5	Planting of plants	No.	100	15.4	1540
6	Irrigation five times	No.	2500	5.78	14450
7	Purchase of water	No.	2500	1.4	3500
8	Sub. Weeding and hoeing five times	No.	2500	5.78	14450
9	Grass cutting from one meter wide strip 4 Times in 500 meter length in per Ha.	m2	2000	3.81	7620
10	Cost of fertilizer, manures, insecticides etc including application.	No.	500	10	5000
	Total				62651.46
11	Added EPF @ 13% and ESI @ 3.25% of wages component				8359.89
12	Added contractor profit @ 10% of total				6265.15
	Net Total				77276.5

3rd year maintainance 10% Replacement @ wage rate Rs. 420 per day

1	Raising of plants in nursery (30cmx45cm) : 50+20% extra		60	110	6600
2	Re-opening of pits 50x0.6mx0.6mx0.5m		9	67.9	611.1
3	Loading and unloading of plants		50	2.55	127.5
4	Carriage of plants		50	21.32	1066
5	Planting of plants		50	13.59	679.5
6	Irrigation four times	No.	2000	5.1	10200
7	Purchase of water	No.	2000	1.54	3080
8	Weeding and hoeing four time	No.	2000	5.1	10200
9	Pruning of 1/3 Lower portion of Plants	No.	400	6.37	2548
10	Grass cutting from one meter wide strip 2 Times in 500 meter length in per Ha.	m2.	1000	4.19	4190
11	Cost of fertilizer, manures, insecticides etc including application.	No.	500	10	5000
	Total				44302.1
12	Added EPF @ 13% and ESI @ 3.25% of wages component				5692.15
13	Added contractor profit @ 10% of total				4430.21
	Net Total				54424.46

4th year maintainance 10% Replacement @ wage rate Rs.462 per day

1	Raising of plants in nursery		60	110	6600
2	Re-opening of pits 50x0.6mx0.6mx0.5m		5.5	98.36	540.98
3	Loading and unloading of plants		50	3.69	184.5
4	Carriage of plants		50	30.88	1544
5	Planting of plants		50	19.69	984.5
6	Irrigation two times	No..	1000	7.39	7390
7	Purchase of water	No.	1000	1.7	1700
8	Weeding and hoeing two time	No.	1000	7.39	7390
9	Pruning of 1/3 Lower portion of Plants	No.	400	7.37	2948
10	Grass cutting from one meter wide strip 2 Times in 500 meter length in per Ha.	m2	1000	4.60	4600
11	Cost of fertilizer, manures, insecticides etc including application.	No.	500	10	5000
	Total				38881.98
12	Added EPF @ 13% and ESI @ 3.25% of wages component				4948.69
13	Added contractor profit @ 10% of total				3888.2
	Net Total				47718.87

5th year maintainance at wage rate Rs.508 per day

1	Irrigation Two times	No..	1000	8.11	8110
2	Purchase of water	No.	1000	1.87	1870
3	Pruning of 1/3 Lower portion of Plants	No.	400	8.10	3240

4	Grass cutting from one meter wide strip 1 Times in 500 meter length in per Ha.	m2	500	5.06	2530
	Total				15750
5	Added EPF @ 13% and ESI @ 3.25% of wages component				937.63
6	Added contractor profit @ 10% of total				1575
	Net Total				18262.63
6th year maintainance at wage rate Rs.559 per day					
1	Misc. Expenditure on Cleaning, Pruning and thinning	L/S			6500
	Total				6500
2	Added EPF @ 13% and ESI @ 3.25% of wages component				1056.25
3	Added contractor profit @ 10% of total				650
	Net Total				8206.25
7th year maintainance at wage rate Rs. 615 per day					
1	Misc. Expenditure on Cleaning, Pruning and thinning	L/S			6500
	Total				6500
2	Added EPF @ 13% and ESI @ 3.25% of wages component				1056.25
3	Added contractor profit @ 10% of total				650
	Net Total				8206.25
8th year maintainance at wage rate Rs. 677 per day					
1	Misc. Expenditure on Cleaning, Pruning and thinning	L/S			6500
	Total				6500
2	Added EPF @ 13% and ESI @ 3.25% of wages component				1056.25
3	Added contractor profit @ 10% of total				650
	Net Total				8206.25
9th year maintainance at wage rate Rs.745 per day					
1	Misc. Expenditure on Cleaning, Pruning and thinning	L/S			6500
	Total				6500
2	Added EPF @ 13% and ESI @ 3.25% of wages component				1056.25
3	Added contractor profit @ 10% of total				650
	Net Total				8206.25
10th year maintainance at wage rate Rs. 820 per day					
1	Misc. Expenditure on Cleaning, Pruning and thinning	L/S			6500
	Total				6500

2	Added EPF @ 13% and ESI @ 3.25% of wages component				1056.25
3	Added contractor profit @ 10% of total				650
	Net Total				8206.25
Abstract of cost norms					
	Year of Plantation	Cost(Rs.)	Cost per plant(Rs.)		
1	1st year plantation	273476.92	546.95		
2	2nd year maintainance	77276.50	154.55		
3	3rd year maintainance	54424.46	108.85		
4	4th year maintainance	47718.87	95.44		
5	5th year maintainance	18262.63	36.53		
6	6th year maintainance	8206.25	16.41		
7	7th year maintainance	8206.25	16.41		
8	8th year maintainance	8206.25	16.41		
9	9th year maintainance	8206.25	16.41		
10	10th year maintainance	8206.25	16.41		
	Total	512190.63	1024.38		

Area to be Diverted : 0.346 ha.

No. of Trees to be felled : 0

No. of Plants to be damaged : 0

Area to be planted under normal CA : 0.692 ha. (Double the area to be diverted)

Plants to be Planted under normal CA : 692 Nos.

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

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

Total No. of plants to be planted (CA+Addl.CA) : 692

Total Area to be planted (CA+Addl. CA) :0.692 ha. Or say 692 Plants

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

S.No	DESCRIPTION		RATE	TOTAL AMOUNT (Rs.)
A	Compensatory Afforestation Charges	No. of Plant		
	(1) 1 st Year cost of afforestation	692	546.95	378489
	(2) 2 nd Year maintenance	692	154.55	106949
	(3) 3 rd Year maintenance	692	108.85	75324
	(4) 4 th Year maintenance	692	95.44	66044

	(5) 5 th Year maintenance	692	36.53	25279
	(6) 6 th Year maintenance	692	16.41	11356
	(7) 7 th Year maintenance	692	16.41	11356
	(8) 8 th Year maintenance	692	16.41	11356
	(9) 9 th Year maintenance	692	16.41	11356
	(10) 10 th Year maintenance	692	16.41	11356
	(11) Tree Guard	692	1500 (Per Tree Guard)	1038000
	Total Charges			1746865
	Supervisory / Overhead / Miscellaneous Charges		10% on the CA charges	0
	Total (A) C.A. Charge			1746865
B	Additional Compensatory Afforestation Charges			
	(1) 1 st Year cost of afforestation	0	546.95	0
	(2) 2 nd Year maintenance	0	154.55	0
	(3) 3 rd Year maintenance	0	108.85	0
	(4) 4 th Year maintenance	0	95.44	0
	(5) 5 th Year maintenance	0	36.53	0
	(6) 6 th Year maintenance	0	16.41	0
	(7) 7 th Year maintenance	0	16.41	0
	(8) 8 th Year maintenance	0	16.41	0
	(9) 9 th Year maintenance	0	16.41	0
	(10) 10 th Year maintenance	0	16.41	0
	(11) Barbed wire fencing charge	RKM 0	Rs.200000/- Per RKM	0
	Total (B) Addl. C.A. Charges			0
C	Penal C.A.		-	0
D	Catchment Area Treatment			
	Soil and Moisture Conservation charges		30% of the Total CA	0
	Total (D)			0
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.	306902
H	Felling charges	Vol. M ³	Rs.1400 /- per m ³	0
		0.00		
Grand Total (A+B+C+D+E+F+G+H) to be deposited in CAMPA Fund				2053767

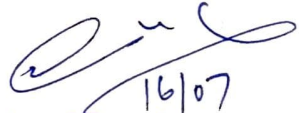
2. Technical details:-

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 :


16/07
Dy. Conservator of Forests
Yamuna Conservator of Forest Division,
Yamuna Nagar.

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