

Full Title of the project: Diversion of 0.108 hac. of Forest land for Widening & strengthening of Link road from Chhachhrouli-Bilaspur to Panchmukhi Hanuman Mandir (ID 717) (0.00 to 0.54) under forest Division and Distt. YNR. Haryana.

Proposal No. FP/HR/Road/43866/2020

Date of Proposal :

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

Name of the Forest/Reach to be diverted

Forest Area =0.108 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 : Sadikpur UCF

Area to be Afforested :- 0.216 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 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 2½m 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/Mesquite Uprooting where density is less than 0.5 Cutting.	Ha	1	15000	15000.00
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	Raising of plants in nursery P.Bag Size (30cmx45cm) : 500+20% extra.	No.	600	97	58200
6	Loading/ Unloading of plants in tractor/cart	No.	600	2.61	1566
7	Carriage of plants.	No.	600	21.79	13074
8	Planting of seedling including 10% replacement.	No.	550	13.89	7639.5

9	Fencing of Plants with six stick including cutting carriage of fencing material.	No.	500	52.06	26030
10	Cost of fertilizer, manures, insecticides etc including application.	No.	500	20	10000
11	Irrigation eight times.	No.	4000	5.21	20840
12	Purchase of water	No.	4000	1.27	5080
13	First weeding & hoeing.	No.	500	6.93	3465
14	Subsequent weeding & hoeing six times	No.	3000	5.21	15630
15	Grass cutting from one meter wide strip 5 Times in 500 meter length in per Ha.	m2	2500	3.47	8677
16	Cost of wages of Mali Cum protection watcher (one time mali cum protection watcher for plantation area of 2000 plants) 26 days X 7 months = 182 days	Days	45	347.08	15618.6
	Total				219832.45
17	Added EPF @ 13% and ESI @ 3.25% of wages component				33272.27
18	Added contractor profit @ 10% of total				21983.25
	Net Total				275087.97
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	Fencing of Plants with six stick including cutting carriage of fencing material.	No.	100	57.31	5731
7	Irrigation five times	No.	2500	5.78	14450
8	Purchase of water	No.	2500	1.4	3500
9	Sub. Weeding and hoeing five times	No.	2500	5.78	14450
10	Grass cutting from one meter wide strip 4 Times in 500 meter length in per Ha.	m2	2000	3.81	7620
11	Repair of Fencing	No.	400	7.70	3080
12	Cost of fertilizer, manures, insecticides etc including application.	No.	500	10	5000
13	Cost of wages of Mali Cum protection watcher (one time mali cum protection watcher for plantation area of 2000 plants) 26 days X 12 months = 312 days	Days	78	382	29796
14	Total				101258.5
15	Added EPF @ 13% and ESI @ 3.25% of wages component				13999.45
16	Added contractor profit @ 10% of total				10125.85
	Net Total				125383.8

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	Fencing of Plants with six stick including cutting carriage of fencing material.	No.	100	63.04	6304
7	Irrigation four times	No.	2000	5.1	10200
8	Purchase of water	No.	2000	1.54	3080
9	Weeding and hoeing four time	No.	2000	5.1	10200
10	Pruning of 1/3 Lower portion of Plants	No.	400	6.37	2548
11	Grass cutting from one meter wide strip 2 Times in 500 meter length in per Ha.	m2	1000	4.19	4190
12	Cost of wages of Mali Cum protection watcher (one time mali cum protection watcher for plantation area of 2000 plants) 26 days X 12 months = 312 days	Days	78	420	32760
13	Cost of fertilizer, manures, insecticides etc including application.	No.	500	10	5000
14	Total				83366.1
15	Added EPF @ 13% and ESI @ 3.25%of wages component				13546.99
16	Added contractor profit @ 10% of total				8336.61
	Net Total				105249.7

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	Fencing of Plants with six stick including cutting carriage of fencing material.	No.	50	69.34	3467
7	Irrigation two times	No.	1000	7.39	7390
8	Purchase of water	No.	1000	1.7	1700
9	Weeding and hoeing two time	No.	1000	7.39	7390
10	Pruning of 1/3 Lower portion of Plants	No.	400	7.37	2948
11	Grass cutting from one meter wide strip 2 Times in 500 meter length in per Ha.	m2	1000	4.60	4600
12	Cost of wages of Mali Cum protection watcher (one time mali cum protection watcher for plantation area of 2000 plants) 26 days X 12 months = 312 days	Days	78	462	36036

13	Cost of fertilizer, manures, insecticides etc including application.				
14	Total	No.	500	10	5000
					78384.98
15	Added EPF @ 13% and ESI @ 3.25% of wages component				12737.56
16	Added contractor profit @ 10% of total				7838.5
	Net Total				98961.04

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
5	Cost of wages of Mali Cum protection watcher (for plantation area of every 2000 Plants who will lookafter and maintain the resources created)	Days	78	508	39624
6	Total				55374
7	Added EPF @ 13% and ESI @ 3.25% of wages component				8998.28
8	Added contractor profit @ 10% of total				5537.4
	Net Total				69909.68

6th year maintainance at wage rate Rs.559 per day

1	Cost of wages of Mali Cum protection watcher (for plantation area of every 4000 Plants who will lookafter and maintain the resources created) 26 days X 12 months = 312 days	Days	39	559	21801
2	Total				21801
3	Added EPF @ 13% and ESI @ 3.25% of wages component				3542.66
4	Added contractor profit @ 10% of total				2180.1
	Net Total				27523.76

7th year maintainance at wage rate Rs. 615 per day

1	Cost of wages of Mali Cum protection watcher (for plantation area of every 4000 Plants who will lookafter and maintain the resources created) 26 days X 12 months = 312 days	Days	39	615	23985
2	Total				23985
3	Added EPF @ 13% and ESI @ 3.25% of wages component				3897.56
4	Added contractor profit @ 10% of total				2398.5
	Net Total				30281.06

8th year maintainance at wage rate Rs. 677 per day				
1	Cost of wages of Mali Cum protection watcher (for plantation area of every 4000 Plants who will lookafter and maintain the resources created) 26 days X 12 months = 312 days	Days	39	677
2	Total			26403
3	Added EPF @ 13% and ESI @ 3.25%of wages component			4290.49
4	Added contractor profit @ 10% of total			2640.3
	Net Total			33333.79

9th year maintainance at wage rate Rs.745 per day				
1	Cost of wages of Mali Cum protection watcher (for plantation area of every 4000 Plants who will lookafter and maintain the resources created) 26 days X 12 months = 312 days	Days	39	745
2	Total			29055
3	Added EPF @ 13% and ESI @ 3.25%of wages component			4721.44
4	Added contractor profit @ 10% of total			2905.5
	Net Total			36681.94

10th year maintainance at wage rate Rs. 820 per day

1	Cost of wages of Mali Cum protection watcher (for plantation area of every 4000 Plants who will lookafter and maintain the resources created) 26 days X 12 months = 312 days	Days	39	820
2	Total			31980
3	Added EPF @ 13% and ESI @ 3.25%of wages component			5196.75
4	Added contractor profit @ 10% of total			3198
	Net Total			40374.75

Abstract of cost norms

	Year of Plantation	Cost(Rs.)	Cost per plant(Rs.)
1	1st year plantation	275087.97	550.18
2	2nd year maintainance	125383.76	250.77
3	3rd year maintainance	105249.70	210.50
4	4th year maintainance	98961.04	197.92
5	5th year maintainance	69909.68	139.82
6	6th year maintainance	27523.76	55.05
7	7th year maintainance	30281.06	60.56
8	8th year maintainance	33333.79	66.67
9	9th year maintainance	36681.94	73.36
10	10th year maintainance	40374.75	80.75
	Total	842787.44	1685.57

Area to be Diverted : 0.108ha.

No. of Trees to be felled : 156

No. of Plants to be damaged : Nil

Area to be planted under normal CA : 0.216 ha. (Double the area to be diverted)

Plants to be Planted under normal CA : 216 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) : 216 Plants

Total Area to be planted (CA) :0.216 ha. Or say 216 Plants

S.No	DESCRIPTION		RATE	TOTAL AMOUNT (Rs.)
A	Compensatory Afforestation Charges	No. of Plant		
	(1) 1 st Year cost of afforestation	216	550.18	118838.88
	(2) 2 nd Year maintenance	216	250.77	54166.32
	(3) 3 rd Year maintenance	216	210.5	45468.00
	(4) 4 th Year maintenance	216	197.92	42750.72
	(5) 5 th Year maintenance	216	139.82	30201.12
	(6) 6 th Year maintenance	216	55.05	11890.80
	(7) 7 th Year maintenance	216	60.56	13080.96
	(8) 8 th Year maintenance	216	66.67	14400.72
	(9) 9 th Year maintenance	216	73.36	15845.76
	(10) 10 th Year maintenance	216	80.75	17442.00
	Total Charges			364085
	Supervisory / Overhead / Miscellaneous Charges		10% on the CA charges	36409
	Total (A) C.A. Charge			400494
B	Additional Compensatory Afforestation Charges			
	(1) 1 st Year cost of afforestation	0	550.18	0
	(2) 2 nd Year maintenance	0	250.77	0
	(3) 3 rd Year maintenance	0	210.5	0
	(4) 4 th Year maintenance	0	197.92	0
	(5) 5 th Year maintenance	0	139.82	0
	(6) 6 th Year maintenance	0	55.05	0
	(7) 7 th Year maintenance	0	60.56	0
	(8) 8 th Year maintenance	0	66.67	0
	(9) 9 th Year maintenance	0	73.36	0
	(10) 10 th Year maintenance	0	80.75	0

	(11) Barbed wire fencing charge	RKM	Rs.76700/- Per RKM	0
	Total (B) Addl. C.A. Charges	0		0
C	Penal C.A.		-	0
	Catchment Area Treatment			
D	Soil and Moisture Conservation charges		30% of the Total CA	120148
	Total (D)			120148
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.	95796
H	Felling charges	Vol. M ³	Rs.1400 /- per m ³	188412
		134.58		
	Grand Total (A+B+C+D+E+F+G+H) to be deposited in CAMPA Fund			804850

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 × 2.5 meter
- Species:- Imli, Aanwal, Behra, Shisham
- 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 :


Divisional Forest Officer
Yamuna Nagar Forest Division
Yamuna Nagar (Haryana)

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