

CF

Full Title of the Project : Diversion of 0.0495 Ha. Forest land for construction of road on Navalpur disty to connecting link road between Shimli to Bhungarka villages under Forest Division & Distt. Mahendergarh, Haryana.

File No. : FP/HR/Road/63287/2020

Date of Proposal : 24-11-2020

CHECK LIST SERIAL NUMBER :- 18

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

Name of the Forest/Reach to be diverted for construction of road on Navalpur disty to connecting link road between Shimli to Bhungarka villages under Forest Division & Distt. Mahendergarh, Haryana.

Forest Area = 0.0495 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: Chhilaro plpa section 4 & 5 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 at PLPA 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 4773 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. 399.27/- Per Plant
2	2 nd Year Plantation	Rs. 98.03/- Per Plant
3	3 rd Year Plantation	Rs. 60.88/- Per Plant
4	4 th Year Plantation	Rs. 24.87/- Per Plant
5	5 th Year Plantation	Rs. 26.82/- Per Plant
6	6 th Year Plantation	Rs. 29.82/- Per Plant
7	7 th Year Plantation	Rs. 32.69/- Per Plant
8	8 th Year Plantation	Rs. 35.90/- Per Plant
9	9 th Year Plantation	Rs. 39.49/- Per Plant
10	10 th Year Plantation	Rs. 43.29/- Per Plant
Total Cost		Rs. 791.05

Area to be Diverted : 0.0495 ha.

No. of Trees to be felled : 12

No. of Plants to be damaged : 32

Area to be planted under normal CA : **0.120 ha.** (Minimum 100 plants scheme)

Plants to be Planted under normal CA : **120** (@ 1000 plants per ha.)

Additional C.A. in lieu of plants to be damaged (Double the plants to be damaged)= **64** Plants

Area to planted under Addl. CA : **0.064 ha.** (@ 1000 plants per ha.)

Total No. of plants to be planted (CA+Addl.CA) : **184**

Total Area to be planted (CA+Addl.CA) : **0.184 ha.** (@ 1000 plants per ha.)

A	Compensatory Afforestation Charges	No. of Plants	Rate	Total Amount (Rs.)
	(1) 1 st Year cost of afforestation	120	Rs. 399.27/- Per Plant	47912
	(2) 2 nd Year maintenance	120	Rs. 98.03/- Per Plant	11764
	(3) 3 rd Year maintenance	120	Rs. 60.88/- Per Plant	7306
	(4) 4 th Year maintenance	120	Rs. 24.87 /- Per Plant	2984
	(5) 5 th Year Maintenance	120	Rs. 26.82/- Per Plant	3218
	(6) 6 th Year Maintenance	120	Rs. 29.82/- Per Plant	3578
	(7) 7 th Year Maintenance	120	Rs. 32.69/- Per Plant	3923
	(8) 8 th Year Maintenance	120	Rs. 35.90/- Per Plant	4308
	(9) 9 th Year Maintenance	120	Rs. 39.49/- Per Plant	4739
	(10) 10 th Year Maintenance	120	Rs. 43.29/- Per Plant	5195
	(11) Barbed wire fencing charge	1 RKM	Rs. 200000/- Per RKM	200000
	Total charges			294927

	Supervisory/Overhead/Miscellaneous Charges		10% on the total CA charges	29493
	Sub Total (A) C.A. charges			324420
B	Additional Compensatory Afforestation Charges	No. of Plants	Rate	Total Amount (Rs.)
	(1) 1 st Year cost of afforestation	64	Rs. 399.27/- Per Plant	25553
	(2) 2 nd Year maintenance	64	Rs. 98.03/- Per Plant	6274
	(3) 3 rd Year maintenance	64	Rs. 60.88/- Per Plant	3896
	(4) 4 th Year maintenance	64	Rs. 24.87/- Per Plant	1592
	(5) 5 th Year Maintenance	64	Rs. 26.82/- Per Plant	1716
	(6) 6 th Year Maintenance	64	Rs. 29.82/- Per Plant	1908
	(7) 7 th Year Maintenance	64	Rs. 32.69/- Per Plant	2092
	(8) 8 th Year Maintenance	64	Rs. 35.90/- Per Plant	2298
	(9) 9 th Year Maintenance	64	Rs. 39.49/- Per Plant	2527
	(10) 10 th Year Maintenance	64	Rs. 43.29/- Per Plant	2771
	(11) Barbed wire fencing charge	0.256 RKM	Rs. 200000/- Per RKM	51200
	Sub Total (B) Total addl. C.A. charges			101827
C	Penal CA			0
D	Catchments Area Treatment			
	Soil and Moisture Conservation charges		30% of total CA	97326
	Sub Total (D)			97326
E	Safety Zone			0
F	Additional Charges			0
	i) Digging of boundary trenches	156	600 Meter	93600
	ii) Survey & Demarcation		L.S.	10000
	iii) Plantation Signage Board charges		L.S.	3000
	Sub Total (F)			106600
G	Net Present Value of Forest Land to be diverted	0.0495	887000 per ha.	43907
H	Felling charges	4.63	1200 per cum	5556
	Grand Total (A+B+C+D+E+F+G+H) to be deposited in CAMPA Fund			679636

2. Technical details :-

Technical details of Compensatory Afforestation Scheme are as follows :-

- General Details :- Plantation will be done with 3 strand barbed wire in Chhilaro section 4 and 5 PLPA areas
- Spacement :- 4 x 2½ 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.**

V.K. Singh
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.

				@W.RATE	462
3rd Year Maintenance					
1	Clearing of weeds/bushes in strips between plantation row	Ha.	0.5	1798.29	899.15
2	Raising of Plants in Nursery	Nos	110	97.08	10678.25
3	Reopening of pits (100x0.6mx0.6mx0.6m)	M ³	22	76.36	1679.96
4	Loading and unloading of plants	Nos	110	2.87	315.81
5	Carriage of Plants average distance of 18 K.M.	Nos	110	23.98	2637.80
6	Planting of plants	Nos	100	15.28	1527.90
7	Irrigation two times including cost of water	Nos	2000	11.45	22902.00
8	Weeding and hoeing once	Nos	1000	5.74	5742.00
9	Miscellance Expenditure	L.S.			6500.00
	Total				52882.87
	Added EPF @ 13%				
	Added ESI @ 3.25%				
	of wages component 50% of total				4297
	Added Contractor profit @ 7% of total				3702
	Net Total				60881.87

				@W.RATE	508
4th Year Maintenance					
1	Clearing of weeds/bushes in strips between plantation row	Ha.	0.5	1797.58	898.79
2	Expenditure on cleaning, pruning and thinning	L.S.			14500.00
3	Miscellance Expenditure	L.S.			6200.00
	Total				21598.79
	Added EPF @ 13%				0.00
	Added ESI @ 3.25%				0.00
	of wages component 50% of total				1755
	Added Contractor profit @ 7% of total				1512
	Net Total				24865.79

				@W.RATE	559
5th Year Maintenance					
1	Clearing of weeds/bushes in strips between plantation row	Ha.	0.5	1798.93	899.47
2	Expenditure on cleaning, pruning and thinning	L.S.			15900.00
3	Miscellance Expenditure	L.S.			6500.00
	Total				23299.47
	Added EPF @ 13%				0.00
	Added ESI @ 3.25%				0.00
	of wages component 50% of total				1893
	Added Contractor profit @ 7% of total				1631
	Net Total				26823.47

				@W.RATE	615
6th Year Maintenance					
1	Clearing of weeds/bushes in strips between plantation row	Ha.	0.5	1798.58	899.29
2	Expenditure on cleaning, pruning and thinning	L.S.			17500.00
3	Miscellance Expenditure	L.S.			7500.00
	Total				25899.29
	Added EPF @ .13%				0.00
	Added ESI @ 3.25%				0.00
	of wages component 50% of total				2104
	Added Contractor profit @ 7% of total				1813
	Net Total				29816.29

				@W.RATE	677
7th Year Maintenance					
1	Clearing of weeds/bushes in strips between plantation row	Ha.	0.5	1799.62	899.81
2	Expenditure on cleaning, pruning and thinning	L.S.			19300.00
3	Miscellance Expenditure	L.S.			8200.00
	Total				28399.81
	Added EPF @ 13%				0.00
	Added ESI @ 3.25%				0.00
	of wages component 50% of total				2307
	Added Contractor profit @ 7% of total				1988
	Net Total				32694.81

				@W.RATE	745
8th Year Maintenance					
1	Clearing of weeds/bushes in strips between plantation row	Ha.	0.5	1799.02	899.51
2	Expenditure on cleaning, pruning and thinning	L.S.			21230.00
3	Miscellance Expenditure	L.S.			9050.00
	Total				31179.51
	Added EPF @ 13%				0.00
	Added ESI @ 3.25%				0.00
	of wages component 50% of total				2533
	Added Contractor profit @ 7% of total				2183
	Net Total				35895.51

				@W.RATE	820
9th Year Maintenance					
1	Clearing of weeds/bushes in strips between plantation row	Ha.	0.5	1799.39	899.69
2	Expenditure on cleaning, pruning and thinning	L.S.			23400.00
3	Miscellance Expenditure	L.S.			10000.00
	Total				34299.69
	Added EPF @ 13%				0.00
	Added ESI @ 3.25%				0.00
	of wages component 50% of total				2787
	Added Contractor profit @ 7% of total				2401
	Net Total				39487.69

81

10th Year Maintenance				@W.RATE	902
1	Clearing of weeds/bushes in strips between plantation row	Ha.	0.5	1798.29	899.15
2	Expenditure on cleaning, pruning and thinning	L.S.			25700.00
3	Miscellance Expenditure	L.S.			11000.00
	Total				37599.15
	Added EPF @ 13%				0.00
	Added ESI @ 3.25%				0.00
	of wages component 50% of total				3055
	Added Contractor profit @ 7% of total				2632
	Net Total				43286.15

ABSTRACT OF COST NORMS		Cost (Rs.)	Cost per plant (Rs.)
1	FIRST YEAR PLANTATION	399272.67	399.27
2	SECOND YEAR PLANTATION	98026.38	98.03
3	THIRD YEAR PLANTATION	60881.87	60.88
4	FOURTH YEAR PLANTATION	24865.79	24.87
5	FIFTH YEAR PLANTATION	26823.47	26.82
6	SIXTH YEAR PLANTATION	29816.29	29.82
7	SEVENTH YEAR PLANTATION	32694.81	32.69
8	EIGHTH YEAR PLANTATION	35895.51	35.90
9	NINETH YEAR PLANTATION	39487.69	39.49
10	TENTH YEAR PLANTATION	43286.15	43.29
TOTAL			791.05


 Divisional Forest Officer
 Mahendergarh