

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) 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 :-

- a) General Details :- Plantation will be done with 3 strand barbed wire in Chhilaro section 4 and 5 PLPA areas
- b) Spacement :- $4 \times 2\frac{1}{2}$ meter

(c) Species :- **Azadirachta indica, Holoptelea integrifolia, Ficus benghalensis, Ficus religiosa, Zizyphus 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.**

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Mahendergarh Forest Division
Manendergarh

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

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3rd Year Maintenance		@W.RATE		462
1	Clearing of weeds/bushes in strips between plantation row	Ha.	0.5	1798.29
2	Raising of Plants in Nursery	Nos	110	97.08
3	Reopening of pits (100x0.6mx0.6mx0.6m)	M ³	22	76.36
4	Loading and unloading of plants	Nos	110	2.87
5	Carriage of Plants average distance of 18 K.M.	Nos	110	23.98
6	Planting of plants	Nos	100	15.28
7	Irrigation two times including cost of water	Nos	2000	11.45
8	Weeding and hoeing once	Nos	1000	5.74
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

508

4th Year Maintenance		@W.RATE		508
1	Clearing of weeds/bushes in strips between plantation row	Ha.	0.5	1797.58
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

559

5th Year Maintenance		@W.RATE		559
1	Clearing of weeds/bushes in strips between plantation row	Ha.	0.5	1798.93
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

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

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

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

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

10th Year Maintenance		@W.RATE		902
1	Clearing of weeds/bushes in strips between plantation row	Ha.	0.5	1798.29
2	Expenditure on cleaning, pruning and thinning	L.S.		25700.00
3	Miscellaneous 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	

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