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Full Title of the Project : Diversion of 0.27 Ha. Forest land for const. of link road near Mirzapur Bachhod railway station from Ateli Disty to Bhilwara road under forest division and district Mahendergarh.

File No. : FP/HR/Road/117213/2020

Date of Proposal : 25-12-2020

CHECK LIST SERIAL NUMBER :- 18 "SCHEME FOR C.A. " (Model-1)

Name of the Forest/Reach to be diverted for const. of link road near Mirzapur Bachhod railway station from Ateli Disty to Bhilwara road under forest division and district Mahendergarh, Haryana.

Forest Area = 0.27 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 : 0.27 ha.

No. of Trees to be felled : 21

No. of Plants to be damaged : Nil

Area to be planted under normal CA : **0.540 ha.** (Minimum 100 plants scheme)

Plants to be Planted under normal CA : **540** (@ 1000 plants per ha.)

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

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

Total No. of plants to be planted (CA+Addl.CA) : **540**

Total Area to be planted (CA+Addl.CA) : **0.540 ha.** (@ 1000 plants per ha.)

A	Compensatory Afforestation Charges	No. of Plants	Rate	Total Amount (Rs.)
	(1) 1 st Year cost of afforestation	540	Rs. 399.27/- Per Plant	215606
	(2) 2 nd Year maintenance	540	Rs. 98.03/- Per Plant	52936
	(3) 3 rd Year maintenance	540	Rs. 60.88/- Per Plant	32875
	(4) 4 th Year maintenance	540	Rs. 24.87 /- Per Plant	13430
	(5) 5 th Year Maintenance	540	Rs. 26.82/- Per Plant	14483
	(6) 6 th Year Maintenance	540	Rs. 29.82/- Per Plant	16103
	(7) 7 th Year Maintenance	540	Rs. 32.69/- Per Plant	17653
	(8) 8 th Year Maintenance	540	Rs. 35.90/- Per Plant	19386
	(9) 9 th Year Maintenance	540	Rs. 39.49/- Per Plant	21325
	(10) 10 th Year Maintenance	540	Rs. 43.29/- Per Plant	23377
	(11) Barbed wire fencing charge	2 RKM	Rs. 200000/- Per RKM	400000
	Total charges			827174

	Supervisory/Overhead/Miscellaneous Charges		10% on the total CA charges	82717
	Sub Total (A) C.A. charges			909891
B	Additional Compensatory Afforestation Charges	No. of Plants	Rate	Total Amount (Rs.)
	(1) 1 st Year cost of afforestation	0	Rs. 399.27/- Per Plant	0
	(2) 2 nd Year maintenance	0	Rs. 98.03/- Per Plant	0
	(3) 3 rd Year maintenance	0	Rs. 60.88/- Per Plant	0
	(4) 4 th Year maintenance	0	Rs. 24.87/- Per Plant	0
	(5) 5 th Year Maintenance	0	Rs. 26.82/- Per Plant	0
	(6) 6 th Year Maintenance	0	Rs. 29.82/- Per Plant	0
	(7) 7 th Year Maintenance	0	Rs. 32.69/- Per Plant	0
	(8) 8 th Year Maintenance	0	Rs. 35.90/- Per Plant	0
	(9) 9 th Year Maintenance	0	Rs. 39.49/- Per Plant	0
	(10) 10 th Year Maintenance	0	Rs. 43.29/- Per Plant	0
	(11) Barbed wire fencing charge	0	Rs. 200000/- Per RKM	0
	Sub Total (B) Total add. C.A. charges			0
C	Penal CA			0
D	Catchments Area Treatment Soil and Moisture Conservation charges		30% of total CA	272967
	Sub Total (D)			272967
E	Safety Zone			0
F	Additional Charges			0
	i) Digging of boundary trenches	156	900 Meter	140400
	ii) Survey & Demarcation		L.S.	10000
	iii) Plantation Signage Board charges		L.S.	3000
	Sub Total (F)			153400
G	Net Present Value of Forest Land to be diverted	0.27	887000 per ha.	239490
H	Felling charges	6.71	1200 per cum	8052
	Grand Total (A+B+C+D+E+F+G+H) to be deposited in CAMPA Fund			1583800

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 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
Mahendergarh

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

Annexure - 1

Detail of site specific proposal @ 382 for the Year 2021-22

No. of Plants per Ha. = 1000 spacing of 4m x 2½M plant to plant		@W.RATE		382	
S.No.	Item of Work	Unit	Qty.	Rate/Unit (Rs.)	Amount (Rs.)
1st Year expenditure					
1	Jungle clearance	Ha.	0.5	5730.00	2865.00
2	Dag bailing and alignment	RKM	4	267.40	1069.62
3	Digging of pits 1000x0.6mx0.6mx0.6m	M ³	216	162.35	35067.84
4	Reopening of pits same year 100x0.6mx0.6mx0.6m	M ³	22	25.79	567.32
5	Raising of plants in nursery (30cm x 45cm) 1000+20%extra	Nos	1200	97.13	116554.68
6	Loading and unloading of plants in tractor/cart	Nos	1200	2.87	3447.11
7	Carriage of plants	Nos	1200	23.99	28791.98
8	Planting of seedling & including 10% replacement	Nos	1100	15.29	16816.23
9	Application of fertilizer (one time DAP+One time Urea)	Nos	2000	0.76	1518.84
10	Irrigation eight times including cost of water	Nos	8000	11.46	91658.87
11	First weeding and hoeing	Nos	1000	7.63	7627.23
12	Subsequent weeding and hoeing five times	Nos	5000	5.75	28725.94
13	Miscellance Expenditure for purchase of fertilizer, pesticides, foliage Nutrients, Baskets & Tins etc.	L.S.			5230
14	Cost of wages of protection watcher (one protection watcher for six months for plantation area 10 Ha.	L.S.			6876
	Total				346816.67
	Added EPF @ 13%				
	Added ESI @ 3.25%				
	of wages component 50% of total				28179
	Added Contractor profit @ 7% of total				24277
	Net Total				399272.67

@W.RATE 420

2nd Year Maintenance		@W.RATE		420	
S.No.	Item of Work	Unit	Qty.	Rate/Unit (Rs.)	Amount (Rs.)
1	Clearing of weeds/bushes in strips between plantation row	Ha.	0.5	1797.44	898.72
2	Raising of Plants in Nursery	Nos	240	97.03	23286.91
3	Reopening of pits (200x0.6mx0.6mx0.6m)	M ³	44	76.33	3358.33
4	Loading and unloading of Plants	Nos	240	2.87	688.71
5	Carriage of Plants	Nos	240	23.97	5752.46
6	Planting of plants	Nos	200	15.27	3054.35
7	Irrigation two times including cost of water	Nos	2000	11.45	22891.10
8	Weeding and hoeing three times	Nos	3000	5.74	17217.80
9	Miscellance Expenditure	L.S.			8000.00
	Total				85148.38
	Added EPF @ 13%				
	Added ESI @ 3.25%				
	of wages component 50% of total				6918
	Added Contractor profit @ 7% of total				5960
	Net Total				98026.38

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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	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

4th Year Maintenance			@W.RATE		508
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

5th Year Maintenance			@W.RATE		559
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
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
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
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
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

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

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