

Full Title of the Project: Diversion of 0.0019 ha. of forest land for construction of open drain in addition to 0.081 ha. forest land already diverted for access to Retail Outlet (Petrol Pump) Khasra No. 161//13 at Village Lohani on Bhiwani Loharu road (NH-709B), km 136.702 (RHS), Tehsil & District Bhiwani, Haryana.

File No. : FCA/S/ FP/HR/Others/150474/2021.

Date of Submission: 24.12.2021.

CHECK LIST SERIAL NUMBER:-18

"SCHEME FOR C.A."

Name of the Forest/Reach to be diverted - Forest land for construction of open drain in addition to 0.081 ha. forest land already diverted for access to Retail Outlet (Petrol Pump) Khasra No. 161//13 at Village Lohani on Bhiwani Loharu road (NH-709B), km 136.702 (RHS), Tehsil & District Bhiwani, Haryana.

Forest Area = 0.0019 ha.

Details of degraded forest land/non-forest land where C.A. is to be carried out.

Division: Bhiwani District : Bhiwani

Area to be Afforested :- 0.10 ha.

- 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: **Good**
 - 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 ;

Norms of Tall plants under Compensatory Afforestation demanded from User Agency in FCA diversion proposals at a wage rate of Rs. 405.11/- per day (in Plain Areas)					
No. of Plants per Ha.= 1000					
Sr No.	Item of Work	Unit	Qty.	405.11/- Rate/Unit(Rs)	Amount (Rs.)
1st Year Plantation					
1	Jungle Clearance	Ha.	0.5	6076.65	3038.33
2	Raising of Plants in nursery (30cmx45cm)	No.	480	101.57	48753.60
3	Raising of Plants in nursery (15cmx22cm)	No.	720	13.38	9633.60
4	Dag bailing and alignment	RKM	3	283.58	850.74
5	Digging of pits(400x0.6mx0.6mx0.6m)	M3	86.4	172.17	14875.49

6	Digging of pits(400x0.45mx0.45mx0.45m)	M3	54.675	141.77	7751.27
7	Loading and unloading of plants in Tractor/cart (30x45m)	No.	440	3.06	1346.40
8	Loading and unloading of plants in Tractor/cart (15cm x 22cm)	No.	660	0.45	297.00
9	Carriage of plants (30x45cm)	No.	440	25.45	11198.00
10	Carriage of plants (15cm x 22cm)	No.	660	2.53	1669.80
11	Plantation of plants including 10% replacement (30x45m)	No.	440	16.22	7136.80
12	Plantation of plants including 10% replacement (15cm x 22cm)	No.	660	6.09	4019.40
13	Application of fertilizer (one time DAP + one time Urea)	No.	2000	0.8	1600.00
14	Irrigation five times	No.	5000	6.09	30450.00
15	First Weeding & Hoeing (30x45m)	No.	400	8.08	3232.00
16	First Weeding & Hoeing (15cm x 22cm)	No.	600	6.09	3654.00
17	Subsequent weeding and hoeing two times (30x45m)	No.	800	6.09	4872.00
18	Subsequent weeding and hoeing two times (15cm x 22cm)	No.	1200	4.05	4860.00
19	Cost of wages of protection watcher (one protection watcher for six months for plantation area of 10 ha.)	LS			7292
20	Miscellaneous Expenditure(Urea Dap, tools, etc.)				1000
Total					167530.43
Added EPF @13%					
Added ESI@3.25%					13611.85
Of wages component 50% of the total					11727.13
Added Contractor Profit@7% total					192869.40
Net Total					

2nd Year Plantation					
1	Cleaning of weed/bushes between plantation	Ha.	0.5	1908.14	954.07
2	Raising of Plants in nursery (30cmx45cm)	No.	96	101.57	9750.72
3	Raising of Plants in nursery (15cmx22cm)	No.	144	13.38	1926.72
4	Re-opening of pits 80x0.6mx0.6mx0.6m	M3	17.28	81.03	1400.20
5	Re-opening of pits 120x0.45mx0.45mx0.45m	M3	10.93	81.03	885.66
6	Loading and unloading of plants (30x45m)	No.	88	3.06	569.28
7	Loading and unloading of plants (15cmx22cm)	No.	132	0.45	59.40

8	Carriage of plants (30x45cm)	No.	88	25.45	2239.60
9	Carriage of plants (15cm x 22cm)	No.	132	2.53	333.96
10	Planting of (30x45m)	No.	88	16.22	1427.36
11	Planting of plants (15cm x 22cm)	No.	132	6.09	803.88
12	Irrigation four times by hired tractor	No.	4000	6.09	24360.00
13	Weeding & Hoeing Three times(30x45m)	No.	1200	6.09	7308.00
14	Weeding & Hoeing Three times (15cm x 22cm)	No.	1800	4.05	7290
15	Miscellaneous Expenditure	LS			1000
16	Cost of wages of protection watcher (one protection watcher for six months for plantation area of 10 ha.)				7292
	Total				67300.85
	Added EPF @13%				
	Added ESI@3.25%				
	Of wages component 50% of the total				5468.19
	Added Contractor Profit@7% total				4711.06
	Net Total				77480.10

3rd Year Plantation

1	Cleaning of weed/bushes between plantation	Ha.	0.5	1908.14	954.07
2	Raising of Plants in nursery (30cmx45cm)	No.	48	101.57	4875.36
3	Raising of Plants in nursery (15cmx22cm)	No.	72	13.38	963.36
4	Re-opening of pits 80x0.6mx0.6mx0.6m	M3	3.645	81.03	295.35
5	Re-opening of pits 120x0.45mx0.45mx0.45m	M3	5.4675	81.03	443.03
6	Loading and unloading of plants (30x45m)	No.	44	3.06	134.64
7	Loading and unloading of plants (15cmx22cm)	No.	66	0.45	29.70
8	Carriage of plants (30x45cm)	No.	44	25.44	1119.36
9	Carriage of plants (15cm x 22cm)	No.	66	2.53	166.98
10	Planting of (30x45m)	No.	44	16.22	713.68
11	Planting of plants (15cm x 22cm)	No.	66	6.09	401.94
12	Irrigation Two times	No.	2000	6.09	12180.00
13	Weeding & Hoeing (30x45m)	No.	400	6.09	2436.00
14	Weeding & Hoeing (15cm x 22cm)	No.	600	4.05	2430.00
15	Miscellaneous Expenditure	LS			1000
16	Cost of wages of protection watcher (one protection watcher for six months for plantation area of 10 ha.)				3646
	Total				31789.48
	Added EPF @13%				

	Added ESI@3.25%				2582.89
	Of wages component 50%,of the total				2225.26
	Added Contractor Profit@7% total				36597.63
	Net Total				

4th Year Plantation

					3646
1	Cost of wages of protection watcher (one protection watcher for six months for plantation area of 10 ha.)				
2	Cleaning, pruning, spacing and thinning	LS		0	5000
3	Miscellaneous Expenditure	LS			2500
	Total				11146
	Added EPF @13%				
	Added ESI@3.25%				905.61
	Of wages component 50% of the total				780.22
	Added Contractor Profit@7% total				12831.83
	Net Total				

5th Year Plantation

					3646
1	Cost of wages of protection watcher (one protection watcher for six months for plantation area of 10 ha.)				
2	Cleaning, pruning, spacing and thinning	LS		0	5000
3	Miscellaneous Expenditure	LS			2500
	Total				11146
	Added EPF @13%				
	Added ESI@3.25%				905.61
	Of wages component 50% of the total				780.22
	Added Contractor Profit@7% total				12831.83
	Net Total				

6th Year Plantation

					3646
1	Cost of wages of protection watcher (one protection watcher for six months for plantation area of 10 ha.)				
2	Cleaning, pruning, spacing and thinning	LS		0	5000
3	Miscellaneous Expenditure				2500
	Total				11146
	Added EPF @13%				
	Added ESI@3.25%				905.61
	Of wages component 50% of the total				780.22
	Added Contractor Profit@7% total				12831.83
	Net Total				

7th Year Plantation

1	Cost of wages of protection watcher (one protection watcher for six months for plantation area of 10 ha.)				3646
2	Cleaning, pruning, spacing and thinning	LS		0	5000
3	Miscellaneous Expenditure				2500
	Total				11146
	Added EPF @13%				
	Added ESI@3.25%				905.61
	Of wages component 50% of the total				780.22
	Added Contractor Profit@7% total				12831.83
	Net Total				

8th Year Plantation

1	Cost of wages of protection watcher (one protection watcher for six months for plantation area of 10 ha.)				3646
2	Cleaning, pruning, spacing and thinning	LS		0	5000
3	Miscellaneous Expenditure				2500
	Total				11146
	Added EPF @13%				
	Added ESI@3.25%				905.61
	Of wages component 50% of the total				780.22
	Added Contractor Profit@7% total				12831.83
	Net Total				

9th Year Plantation

1	Cost of wages of protection watcher (one protection watcher for six months for plantation area of 10 ha.)				3646
2	Cleaning, pruning, spacing and thinning	LS		0	5000
3	Miscellaneous Expenditure				2500
	Total				11146
	Added EPF @13%				
	Added ESI@3.25%				905.61
	Of wages component 50% of the total				780.22
	Added Contractor Profit@7% total				12831.83
	Net Total				

10th Year Plantation

1	Cost of wages of protection watcher (one protection watcher for six months for plantation area of 10 ha.)				3646
2	Cleaning, pruning, spacing and thinning	LS		0	5000
3	Miscellaneous Expenditure				2500

	Total				11146
	Added EPF @13%				
	Added ESI@3.25%				905.61
	Of wages component 50% of the total				780.22
	Added Contractor Profit@7% total				12831.83
	Net Total				

Abstract of Cost Norms			
Year of plantation	Cost (in Rs)	Cost per plant	
First Year Plantation	192869.40	192.87	
Second Year Plantation	77480.10	77.48	
Third Year Plantation	36597.63	36.60	
Fourth Year Plantation	12831.83	12.83	
Five Year Plantation	12831.83	12.83	
Six Year Plantation	12831.83	12.83	
Seven Year Plantation	12831.83	12.83	
Eight Year Plantation	12831.83	12.83	
Nine Year Plantation	12831.83	12.83	
Ten Year Plantation	12831.83	12.83	
Total	396769.97	396.77	

Area to be Diverted : 0.0019 ha.

No. of Trees to be felled : 01

No. of Plants to be damaged : 00.

Area to be planted under normal CA : 0.10 (Double the area to be diverted)

Plants to be Planted under normal CA : 100 nos. (@ 1000 plants per ha.)

Additional C.A. : 0 ha. in lieu of plants to be damaged (Double the plants to be damaged)= 0 Plants

Area to planted under Addl. CA : 0 (@ 1000 plants per ha.)

Total No. of plants to be planted (CA) 100

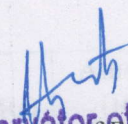
Total Area to be planted (CA+Addl.CA) : 0.10 ha. (@ 1000 plants per ha.)

S.No	DESCRIPTION		RATE	TOTAL AMOUNT (Rs.)
A	Compensatory afforestation Charges	No. of Plants		
	(1) 1 st Year cost of afforestation	100	Rs. 192.87 Per Plant	19287
	(2) 2 nd Year maintenance		Rs. 77.48 Per Plant	7748
	(3) 3 rd Year maintenance		Rs. 36.60 Per Plant	3660
	(4) 4 th Year maintenance		Rs. 12.83 Per Plant	1283
	(5) 5 th Year maintenance		Rs. 12.83 Per Plant	1283
	(6) 6 th Year maintenance		Rs. 12.83 Per Plant	1283
	(7) 7 th Year maintenance		Rs. 12.83 Per Plant	1283
	(8) 8 th Year maintenance		Rs. 12.83 Per Plant	1283
	(9) 9 th Year maintenance		Rs. 12.83 Per Plant	1283
	(10) 10 th Year maintenance		Rs. 12.83 Per Plant	1283

	Total C.A. Charges		39676/.
B	Additional Compensatory Afforestation Charges		
	(1) 1 st Year cost of afforestation	Rs. 192.87 Per Plant	
	(2) 2 nd Year maintenance	Rs. 77.48 Per Plant	
	(3) 3 rd Year maintenance	Rs. 36.60 Per Plant	
	(4) 4 th Year maintenance	Rs. 12.83 Per Plant	
	(5) 5 th Year maintenance	Rs. 12.83 Per Plant	
	(6) 6 th Year maintenance	Rs. 12.83 Per Plant	
	(7) 7 th Year maintenance	Rs. 12.83 Per Plant	
	(8) 8 th Year maintenance	Rs. 12.83 Per Plant	
	(9) 9 th Year maintenance	Rs. 12.83 Per Plant	
	(10) 10 th Year maintenance	Rs. 12.83 Per Plant	
	Sub Total (B) Total Addl. C.A. Charges		0
C	Penal C.A.	-	39676/.
	Total		
D	Catchment Area Treatment		
	Fencing/Supervisory / Overhead / Miscellaneous Charges	20% of CA amount	7936/.
E	Safety Zone		0
F	Additional Charges		0
		0
		0
	Sub Total (F)	0	
G	Felling charges 0.57 m ³	Rs.1400 /- per m ³	798/.
	GRAND TOTAL (A+B+C+D+E+F+G+H+I) to be deposited in CAMPA Fund		48410/.

2. **Technical details:-**
 Technical details of Compensatory Afforestation Scheme are as follows:-
 a) General Details:- Plantation will be done with 3 strand barbed wire.
 b) Spacement:- 4 × 2½ meter
 c) Species:- Dalburgia Sisoo(Sisham), Syzygium cumini(Jamun), Malia Arcide(Bakin), Azadirachta indica(Neem),
 d) Plantation Method :- Plantation
 e) Soil and Moisture Conservation Works
 f) Protection (Fencing, Watch man, People's Participation etc.):
 g) Proposed Monitoring Mechanism:- (M&E),
 h) Any Other information:- Nil.
 Date:

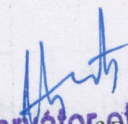
Place Bhiwani


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	Total C.A. Charges		39676/.
B	Additional Compensatory Afforestation Charges		
	(1) 1 st Year cost of afforestation	Rs. 192.87 Per Plant	
	(2) 2 nd Year maintenance	Rs. 77.48 Per Plant	
	(3) 3 rd Year maintenance	Rs. 36.60 Per Plant	
	(4) 4 th Year maintenance	Rs. 12.83 Per Plant	
	(5) 5 th Year maintenance	Rs. 12.83 Per Plant	
	(6) 6 th Year maintenance	Rs. 12.83 Per Plant	
	(7) 7 th Year maintenance	Rs. 12.83 Per Plant	
	(8) 8 th Year maintenance	Rs. 12.83 Per Plant	
	(9) 9 th Year maintenance	Rs. 12.83 Per Plant	
	(10) 10 th Year maintenance	Rs. 12.83 Per Plant	
	Sub Total (B) Total Addl. C.A. Charges		
C	Penal C.A.	-	0
	Total		39676/.
D	Catchment Area Treatment		
	Fencing/Supervisory / Overhead / Miscellaneous Charges	20% of CA amount	7936/.
E	Safety Zone		0
F	Additional Charges		0
		0
		0
	Sub Total (F)	0	
G	Felling charges 0.57 m ³	Rs.1400 /- per m ³	798/.
	GRAND TOTAL (A+B+C+D+E+F+G+H+I) to be deposited in CAMPA Fund		48410/.

2. **Technical details:-**
 Technical details of Compensatory Afforestation Scheme are as follows:-
 a) General Details:- Plantation will be done with 3 strand barbed wire.
 b) Spacement:- 4 × 2½ meter
 c) Species:- Dalburgia Sisoo(Sisham), Syzygium cumini(Jamun), Malia Arcide(Bakin), Azadirachta indica(Neem),
 d) Plantation Method :- Plantation
 e) Soil and Moisture Conservation Works
 f) Protection (Fencing, Watch man, People's Participation etc.):
 g) Proposed Monitoring Mechanism:- (M&E),
 h) Any Other information:- Nil.
 Date:

Place Bhiwani


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