

Full Title of the Project: Diversion of 0.5457618 Ha. of forest land for carrying out the work of Lilo of one circuit of 132 KV D/C Sangwan-Khanak line at 132 KV S/Stn Bhojraj (Hisar) & Construction of 132 KV S/C line on D/C Towers with 0.4Sq. ACSR Zebra conductor from 132 KV S/Stn Bhojraj to 132 KV S/Stn Arya Nagar Line.

File No. : FCA/S/

Date of Submission:

FP/HR/TRANS/50181/2020.

29.09.2020.

CHECK LIST SERIAL NUMBER:-18

"SCHEME FOR C.A."

Name of the Forest/Reach to be diverted - Forest land for carrying out the work of Lilo of one circuit of 132 KV D/C Sangwan-Khanak line at 132 KV S/Stn Bhojraj (Hisar) & Construction of 132 KV S/C line on D/C Towers with 0.4Sq. ACSR Zebra conductor from 132 KV S/Stn Bhojraj to 132 KV S/Stn Arya Nagar Line.
Forest Area- 0.0135 ha.

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

Division:

District :

Area to be Afforested :- 0.10 ha. C A site name- Baganwala minor RD 0-4L&R

Side

- Whether the site selected for Compensatory Afforestation is a Land bank (Yes or No): No.
- 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 :-
 - Soil type: **Good**
 - Topography a. Hilly/Undulating/Plain: **Plain**
b. Slope:-Steep/Medium/Gentle: **Gentle**
 - 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%				
	Of wages component 50% of the total				13611.85
	Added Contractor Profit@7% total				11727.13
	Net Total				192869.40
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%				
	Of wages component 50% of the total				2582.89
	Added Contractor Profit@7% total				2225.26
	Net Total				36597.63

4th 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	LS			2500
	Total				11146
	Added EPF @13%				
	Added ESI@3.25%				
	Of wages component 50% of the total				905.61
	Added Contractor Profit@7% total				780.22
	Net Total				12831.83

5th 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	LS			2500
	Total				11146
	Added EPF @13%				
	Added ESI@3.25%				
	Of wages component 50% of the total				905.61
	Added Contractor Profit@7% total				780.22
	Net Total				12831.83

6th 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%				
	Of wages component 50% of the total				905.61
	Added Contractor Profit@7% total				780.22

	Net Total				12831.83
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%				
	Of wages component 50% of the total				905.61
	Added Contractor Profit@7% total				780.22
	Net Total				12831.83
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%				
	Of wages component 50% of the total				905.61
	Added Contractor Profit@7% total				780.22
	Net Total				12831.83
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%				
	Of wages component 50% of the total				905.61
	Added Contractor Profit@7% total				780.22
	Net Total				12831.83
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%			
	Of wages component 50% of the total			905.61
	Added Contractor Profit@7% total			780.22
	Net Total			12831.83

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 : 0.0135 ha.

No. of Trees to be felled : 5

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	No. of Plants	RATE	TOTAL AMOUNT (Rs.)
A	Compensatory afforestation Charges			
	(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	0
	(2) 2 nd Year maintenance		Rs. 77.48 Per Plant	0
	(3) 3 rd Year maintenance		Rs. 36.60 Per Plant	0
	(4) 4 th Year maintenance		Rs. 12.83 Per Plant	0
	(5) 5 th Year maintenance		Rs. 12.83 Per Plant	0
	(6) 6 th Year maintenance		Rs. 12.83 Per Plant	0
	(7) 7 th Year maintenance		Rs. 12.83 Per Plant	0
	(8) 8 th Year maintenance		Rs. 12.83 Per Plant	0
	(9) 9 th Year maintenance		Rs. 12.83 Per Plant	0
	(10) 10 th Year maintenance		Rs. 12.83 Per Plant	0
	Sub Total (B) Total Addl. C.A. Charges			0
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)			
G	Felling charges 0.46 m ³	Rs.1400 /- per m ³		644
	GRAND TOTAL (A+B+C+D+E+F+G+H+I) to be deposited in CAMPA Fund			48256/.

2. **Technical details:-**

Technical details of Compensatory Afforestation Scheme are as follows:-

- General Details:- Plantation will be done with 3 strand barbed wire.
- Spacement:- $4 \times 2\frac{1}{2}$ meter
- Species:- Dalburgia Sisoo(Sisham), Syzygium cumini(Jamun), Maliar Arcide(Bakin), Azadirachta indica(Neem),
- Plantation Method :- Plantation
- Soil and Moisture Conservation Works
- Protection (Fencing, Watch man, People's Participation etc.)::-
- Proposed Monitoring Mechanism:- (M&E),
- Any Other information:- Nil.

Date:

Place Bhiwani

Dy. Conservator of Forests ,
Bhiwani.