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/

FP/HR/TRANS/50181/2020.

Date of Submission:

29.09.2020.

CHECK LIST SERIAL NUMBER:-18

## "SCHEME FOR C.A."

Notice 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

- 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:-
  - Soil type: Good i)
  - a. Hilly/Undulating/Plain: Plain Topography ii)

b. Slope:-Steep/Medium/Gentle: Gentle

Whether the area is bearing any root stock of vegetation:- No iii)

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 Pla	nts per Ha.=	1000		934.07
Sr	Item of Work	Unit	Qty.	405.11/- Rate/Unit(Rs)	Amount (Rs.)
No.	148 20 30 70 1	4		3	
1st Ye	ar Plantation	Ha.	0.5	6076.65	3038.33
2	Jungle Clearance Raising of Plants in nursery	No.	480	101.57	48753.60
3	(30cmx45cm) Raising of Plants in nursery	No.	720	13.38	9633.60
	(15cmx22cm)	RKM	3	283.58	850.74
5	Dag bailing and alignment Digging of pits(400x0.6mx0.6mx0.6mx)	M3	86.4	172.17	14875.49

6	Digging of	M3	54.675	141.77	7751.27
	pits(400x0.45mx0.45mx0.45m)	NI	110	3.06	1346.40
7	Loading and unloading of plants in Tractor/cart (30x45m)	No.	440	3.00	1340.40
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		1006.14	7292
20	Miscellaneous Expenditure(Urea Dap, tools, etc.)	34	,u*		1000
	Total			10.78	167530.43
	Added EPF @13%				
	Added ESI@3.25%			- a 15	
1	Of wages component 50% of the				13611.85
	Added Contractor Profit@7% total				11727.13
	Net Total		3.8		192869.40
and V	ear Plantation				
1	Cleaning of weed/bushes between plantation	На.	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	No.	132	0.45	59.40
	-(15cmx22cm)	No.	88	25.45	2239.60
8	Carriage of plants (30x45cm)	No.	132	2.53	333.96
9	Carriage of plants (15cm x 22cm)		88	16.22	1427.36
10	Planting of (30x45m)	No.	132	6.09	803.88
11	Planting of plants (15cm x 22cm)	No.	4000	6.09	24360.00
12	Irrigation four times by hired tractor	No.	1200	6.09	7308.00
13	Weeding & Hoeing Three times(30x45m)	No.	1200	<b>X</b>	37,50
14	Weeding & Hoeing Three times	No.	1800	4.05	7290
	(15cm x 22cm)	LS			1000
The	Miscellaneous Expenditure	LO			7292
16	Cost of wages of protection watcher (one protection watcher for six	18			1504
	months for plantation area of 10 ha.)  Total				67300.85
	Added EPF @13%				
	Added ESI@3.25%				9835
	Of wages component 50% of the				5468.19
	total				4711.06
	Added Contractor Profit@7% total				77480.10
	Net Total				3000
3rd \	/ear Plantation	На.	0.5	1908.14	954.07
-1	Cleaning of weed/bushes between	11a.	0.5		
	plantation	No.	48	101.57	4875.36
2	Raising of Plants in nursery	INO.	40	101.0	
	(30cmx45cm)	No.	72	13.38	963.36
3	Raising of Plants in nursery	NO.	12	13.30	
	(15cmx22cm)	N/12	3.645	81.03	295.35
4	Re-opening of pits	M3	3.043	01.03	
*	80x0.6mx0.6mx0.6m	N/2	5.4675	81.03	443.03
5	Re-opening of pits	M3	3.4073	01.05	
	120x0.45mx0.45mx0.45m	No	44	3.06	134.64
6	Loading and unloading of plants (30x45m)	No.	44		1742143
7	Loading and unloading of plants	No.	66	0.45	29.70
0	(15cmx22cm) Carriage of plants (30x45cm)	No.	44	25.44	1119.36
8		No.	66	2.53	166.98
9	Dienting of (30v45m)	No.	44	16.22	713.68
10	(15 - 22 - 22 - 22 - 22 - 22 - 22 - 22 -	No.	66	6.09	401.94
11	Planting of plants (15cm x 22cm)	No.	2000	6.09	12180.0
12	2 Irrigation Two times	No.	400	6.09	2436.00
1.	Weeding & Hoeing (30x45m)	No.	600	4.05	2430.00
14	Weeding & Hoeing (15cm x 22cm)	LS			1000
1	5 Miscellaneous Expenditure	100			3646
1	(one protection watcher for six				280.12
	months for plantation area of 10 ha.)				

	Total			31789.48
LYS	Added EPF @13%			
	Added ESI@3.25%			2502.00
	Of wages component 50% of the			2582.89
	total			2225.26
	Added Contractor Profit@7% total			36597.63
	Net Total			30597.03
th Yes	ar Plantation		V.	3646
1	Cost of wages of protection watcher (one protection watcher for six			3040
3	months for plantation area of 10 ha.) Cleaning, pruning, spacing and thinning	LS	0	5000
3	Miscellaneous Expenditure	LS		2500
3	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
th V	ear Plantation			2300
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	34		11146
	Added EPF @13%			
-	Added ESI@3.25%			1 364b.5
-	Of wages component 50% of the			905.61
	total			
	Added Contractor Profit@7% total	1.5		780.22
	Net Total			12831.83
6th V	ear Plantation			2550
1	Cost of wages of protection watcher (one protection watcher for six			3646
2	months for plantation area of 10 ha.) Cleaning, pruning, spacing and thinning	LS	0	5000
3	Miscellaneous Expenditure			2500
3	Total			11146
1257	Added EPF @13%			
	Added ESI@3.25%			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Of wages component 50% of the			905.61
	total			780.22

.

	Net Total	-1.8			12831.83
h Voc	r Plantation				7. 2616
1 tea	Cost of wages of protection watcher				3646
1	(one protection watcher for six				191
	months for plantation area of 10 ha.)				7000
2	Cleaning, pruning, spacing and	LS		0	5000
2	thinning				9(3),5)
2	Miscellaneous Expenditure				2500
3	Total				11146
	Added EPF @13%	Sout New	12325		
	Added ESI@3.25%	7		of Error Columbia	905.61
	Of wages component 50% of the				
Va	total		888	10.75 89	780.22
	Added Contractor Profit@7% total			77.59	12831.83
	Net Total	11500		5.6. (46)	
3th Ye	ear Plantation	30,756	1.2		3646
1	Cost of wages of protection watcher			10.00	30.0
	(one protection watcher for six				
	months for plantation area of 10 ha.)	12814		0	5000
2	Cleaning, pruning, spacing and	LS		0	3000
	thinning	34.3		17.83	2500
3	Miscellaneous Expenditure	1.1831	13	12.83	
-	Total	-10831		12.83	11146
	Added EPF @13%	146.76		306.97	
	Added ESI@3.25% '				207.61
	Of wages component 50% of the		4'		905.61
	total				
	Added Contractor Profit@7% total				780.22
No B	Net Total				12831.83
- 11 -				to diversall	
9th Y	Vear Plantation		e diam'r	es a verbalista	3646
È	Cost of wages of protection watcher		The same	the matter of the	
	(one protection watcher for six				
	months for plantation area of 10 ha.)	LS		0	5000
2	Cleaning, pruning, spacing and	LS			
	thinning		7 1 1 1 1 1 1 1 1 1	to prost their La	2500
3	Miscellaneous Expenditure		4.34		11146
	Total				
	Added EPF @13%				
	Added ESI@3.25%	-			905.61
	Of wages component 50% of the				903.01
	total	1000			780.22
	Added Contractor Profit@7% total				
	Net Total				12831.8
TOth	Year Plantation		14	1	
10	Cost of wages of protection watcher				3646
1	(one protection watcher for six			Burt - B. Carlot Mills	
	months for plantation area of 10 ha.)				

· · · · · · · · · · · · · · · · · · · ·	18		0	5000
	LS	Ro Title	Per Pitel	100
			Tipe Tipe	2500
Miscellaneous Expenditure				11146
Total				11140
Added EPF @13%				
Added ESI@3.25%	AND ASSESSED BY			005.61
Of wages component 50% of the		R4.75		905.61
		100	TOTAL VERSILA	780.22
				12831.83
Net Total				12051.05
	Added EPF @13% Added ESI@3.25% Of wages component 50% of the total Added Contractor Profit@7% total Net Total	thinning Miscellaneous Expenditure  Total  Added EPF @13%  Added ESI@3.25%  Of wages component 50% of the total  Added Contractor Profit@7% total  Net Total	thinning  Miscellaneous Expenditure  Total  Added EPF @13%  Added ESI@3.25%  Of wages component 50% of the total  Added Contractor Profit@7% total	Cleaning, pruning, spacing and thinning  Miscellaneous Expenditure  Total  Added EPF @13%  Added ESI@3.25%  Of wages component 50% of the total  Added Contractor Profit@7% total  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: 0.0135 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)

Plas 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 (A) 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 <sup>st</sup> Year cost of afforestation	100	Rs. 192.87 Per Plant	19287
	(2) 2 <sup>nd</sup> Year maintenance		Rs. 77.48 Per Plant	7748
	(3) 3rd Year maintenance		Rs. 36.60 Per Plant	3660
	(4) 4th Year maintenance		Rs. 12.83 Per Plant	1283
	(5) 5th Year maintenance		Rs. 12.83 Per Plant	1283
			Rs. 12.83 Per Plant	1283
	(6) 6 <sup>th</sup> Year maintenance (7) 7 <sup>th</sup> Year maintenance		Rs. 12.83 Per Plant	1283

	Osh M	Rs. 12.83 Per Plant	1283
	(8) 8 Year maintenance	Rs. 12.83 Per Plant	1283
	(9) 9th Year maintenance (10) 10th Year maintenance	Rs. 12.83 Per Plant	1283
	Total C.A. Charges	A Cosmonweal IS	39676/.
	Additional Compensatory Afforestation Charg	ges	3 - 4 - 5 - 3 - 34 - 34 - 34 - 34 - 34 -
	(1) 1st Year cost of afforestation	Rs. 192.87 Per Plant	0
	(2) 2 <sup>nd</sup> Year maintenance	Rs. 77.48 Per Plant	0
	(3) 3rd Year maintenance	Rs. 36.60 Per Plant	0
	(4) 4th Year maintenance	Rs. 12.83 Per Plant	0
	(5) 5th Year maintenance	Rs. 12.83 Per Plant	0
		Rs. 12.83 Per Plant	0
	(6) 6th Year maintenance (7) 7th Year maintenance	Rs. 12.83 Per Plant	0
	(8) 8 <sup>th</sup> Year maintenance	Rs. 12.83 Per Plant	0
	(9) 9th Year maintenance	Rs. 12.83 Per Plant	0
	(10) 10 <sup>th</sup> Year maintenance	Rs. 12.83 Per Plant	0
	Sub Total (B) Total Addl. C.A. Charges		0
		A 1012 A 10 28 10 PR 150 PR	0
C	Penal C.A.	- 10 10 10 10 10 10 10 10 10 10 10 10 10	39676/.
	Total		390707.
D	Catchment Area Treatment		F02()
	Fencing/Supervisory / Overhead / Miscellaneous	20% of CA amount	7936/.
-	Charges	er Burning State of State of	0
E	Safety Zone		
F	Additional Charges	· ·	0
			0
	4	0	
	Sub Total (F)	Rs.1400 /- per m <sup>3</sup>	644
G	Felling charges 0.46 m <sup>3</sup>		48256/.
	GRAND TOTAL (A+B+C+D+E+F+G+H+I) to be	e deposited in CANTA Fund	40230/.

Technical details:-

Technical details of Compensatory Afforestation Scheme are as follows:-

Plantation will be done with 3 strand barbed wire.  $4 \times 27$  meter a) General Details:-

b) Spacement:-

c) Species:- Dalburgia Sisoo(Sisham), Syzygium cumini(Jamun), Maliar 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

Dy. Conservator of Forests, Bhiwani.