Full Title of the Project :

Diversion of 0.8085 Ha. Forest land for construction of 220 KV D/C Transmission line from Existing 220/400 KV D/C Sub Station Dhanonda to 220 KV Sub Station Deroli Ahir through various strip Forests under forest division

and district Mahendergarh. FP/HR/Trans/140597/2021

File No.:

Date of Proposal:

04-04-2021

CHECK LIST SERIAL NUMBER: - 18

C.A. Scheme

Detailed scheme for compensatory Afforestation to be carried out in ileu of 0.8085 Ha. Of forest area to be diverted for

Diversion of 0.8085 Ha. Forest land for construction of 220 KV D/C Transmission line from Existing 220/400 KV D/C Sub Station Dhanonda to 220 KV Sub Station Deroli Ahir through various strip Forests under Forest Division and Distt. Mahendergarh, PLPA area Madhogarh sec. 4&5 Details of degraded forest land/non forest land where CA is to be carried out: Madhogarh Village Mahendergarh Mahendergarh | District Division Description of 2) Area: Yes Whether the site selected for Compensatory Afforestation is a Land bank Yes/No If the CA site is other than the land bank, reasons are given: -NA ii In Case of Non-forest Area identified for CA, Then what is NA iii the distance of CA site from adjoining forest boundary Sandy Loam Soil type iv a. Hilly/Undulating/Plain Topography: b. Slope: - Steep/Medium/Gentle Whether the area is bearing any root stock of vegetation:-No vi

3. Plantation Model:-

Copy of the approved Compensatory Afforestation Scheme/Model showing component wise physical and financial break up is as under; Detail of year wise break-up of requirements of funds is as under:The plantation cost is calculated for Tall plants norms at 4 mtrx2.5 mtr spacing at the wage rate Rs. 393.77/- per day for the year 2022-23 as under:-

Area to be Diverted		0.8085
Area to be planted under normal CA	Ten times of damaged tree	1750
No. of Trees to be felled	175	Nos.
No. of Plant to be damaged	170	Nos.
Additional C.A. in lieu of plants to be damaged	Double the plants to be damaged	340

1 Schedule of plantation programme:-

Detail of year wise break-up of requirements of funds is as under:Bill

A	Compensatory Afforestation Charges	No. of Plants	Rate	Total Amount (Rs.)
	(1) 1st Year cost of afforestation	1750	Rs. 192.87/- Per Plant	337522
	(2) 2 nd Year maintenance	1750	Rs. 77.48/- Per Plant	135590
	(3) 3 rd Year maintenance	1750	Rs. 36.60/- Per Plant	64050
	(4) 4th Year maintenance	1750	Rs. 12.83/- Per Plant	22452
	(5) 5th Year Maintenance	1750	Rs. 12.83/- per plant	22452
	(6) 6th Year Maintenance	1750	Rs. 12.83/-per plant	22452
	(7) 7th Year Maintenance	1750	Rs. 12.83/-Per plant	22452
	(8) 8th Year Maintenance	1750	Rs. 12.83/-Per plant	22452
	(9) 9th Year Maintenance	1750	Rs. 12.83/-Per plant	22452
	(10) 10th Year Maintenance	1750	Rs. 12.83/-Per plant	22452
	Total charges			694326
	Supervisory/Overhead/Miscellaneou s Charges/ Fencing		20% on the total CA charges	138865
	Sub Total (A) C.A. charges			833191
В	Additional Compensatory Afforestation Charges	No. of Plants	Rate	Total Amount (Rs.)
	(1) 1st Year cost of afforestation	340	Rs. 192.87/- Per Plant	65576
	(2) 2 nd Year maintenance	340	Rs. 77.48/- Per Plant	26343
	(3) 3 rd Year maintenance	340	Rs. 36.60/- Per Plant	12444
	(4) 4th Year maintenance	340	Rs. 12.83/- Per Plant	4362
	(5) 5th Year Maintenance	340	Rs. 12.83/- per plant	4362
	(6) 6th Year Maintenance	340	Rs. 12.83/-per plant	4362
	(7) 7th Year Maintenance	340	Rs. 12.83/-Per plant	4362
	(8) 8th Year Maintenance	340	Rs. 12.83/-Per plant	4362
	(9) 9th Year Maintenance	340	Rs. 12.83/-Per plant	4362
	(10) th Year Maintenance	340	Rs. 12.83/-Per plant	4362

	Sub Total (B) Total addl. C.A. charges		ma	134897
C	Penal CA			0
D	Catchments Area Treatment Soil and Moisture Conservation charges		30% of total CA	249957
	Sub Total (D)		0070 01 10111 011	0
Е	Safety Zone			0
F	Additional Charges			0
	i) Chain link fencing	0	0	0
	ii) Pipeline fitting for multiple water points			0
	iii) Survey & demarcation			10000
	iv) Plantation Sine board			3000
	Sub Total (F)			0
G	Felling charges	118.31	1400 per cum	165634
	Grand Total (A+B+C+D+E+F+G+H) to b	e deposited i	in CAMPA Fund	1396679

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 Protected Forest areas		
b	Spacement	4 x 4 meter		
С	Species	Azadirachta indica, Holoptelea		
		integrifolia, Ficus benghalensis,		
		Ficus religiosa, Zyzyphus mauritiana		
		Albizia lebbeck etc.		
d	Plantation Method	Tall Plantation		
е	Soil and Moisture Conservation Works	Nil		
f	Protection (Fencing, Watch man, People's	Fencing with Barbed Wire/ Protection		
	Participation etc)	Watcher		
g	Proposed Monitoring Mechanism	Inspection by officers.		
h	Any other information	No any.		

Divisional Forest Officer Mahendergarh Forest Division Full Title of the Project :

Diversion of 0.8085 Ha. Forest land for construction of 220 KV D/C Transmission line from Existing 220/400 KV D/C Sub Station Dhanonda to 220 KV Sub Station Deroli Ahir through various strip Forests under forest division

and district Mahendergarh.

File No.:

FP/HR/Trans/140597/2021

Date of Proposal:

04-04-2021

NPV Calculation Sheet

	Description	Total Area	Rate	Total Amount (RS.)
A	Net Present Value of Forest Land to be diverted	0.8085	Rs. 1228590(Lac s/Ha.	993316/-
		Diverted Land Details		
	Project Land Category	Canditions		
1	Eco Class	III		
2	Canopy Density	Very Dense/Dense/Open	,	
3	Density of Vegetation	0.4		
4	Is Forest Area in National Park	10 times of NPV	NA	
5	Wild Life Sanctuary	5 times of NPV	NA	
6	Project type wise	50% for wind power project/OFC	NA	
	Total NPV Payable			993316/-

Place: Mahendergarh Date:07.11.2022

Name:

Rohtas Singh, H.F.S.,

Designation: Divisional Forest Officer

Annexure -II

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 405.11/-Rate/unit(Rs) Amount (Rs.) Qty. Unit Item of Work Sr no. Ist Year Plantation 6076.65 3038.33 0.5 Ha. Jungle Clearance 48753.60 101.57 480 Raising of plants in nursery (30cmX45cm): No. 9633.60 720 13.38 No. Raising of plants in nursery (15cmX22cm): 3 850.74 283.58 RKM 3 Dag bailing and alignment 4 14875.49 172.17 Digging of pits (400x0.6mx0.6mx0.6m) 86.4 M3 5 7751.27 Digging of pits (600x0.45mx0.45mx0.45m) Loading and unloading of plants in Tractor/Cart. 141.77 МЗ 54.675 6 3.06 1346.40 440 No. 7 Loading and unloading of plants in Tractor/Cart. 297.00 660 0.45 No. (15cmX22cm) 8 11198.00 440 25.45 Carriage of plants (30X45cm) No. 1669.80 660 2,53 No. Carriage of plants (15cmX22cm) 10 Plantation of plants including 10% replacement 7136.80 16.22 440 No. 11 Plantation of plants including 10% replacement 4019.40 6.09 660 No. (15cmX22cm) 12 Application of fertilizer(One time DAP+ One time 1600.00 0.8 2000 No. Urea) 13 5000 6.09 30450.00 Irrigation five times No. 14 3232.00 8.08 400 First Weeding and Hoeing (30X45cm) No. 15 6.09 3654.00 600 First Weeding and Hoeing (15cmX22cm) No. 16 Subsequent weeding and hoeing two times 6.09 4872,00 800 No. 17 (30X45cm) Subsequent weeding and hoeing two times 4.05 4860.00 1200 No. (15cmX22cm) 18 Cost of Wages of protection watcher (one protection 7292 watcher for six months for plantation area of 10 ha.) LS 19 1000 Miscellaneous Expenditure(Urea Dap, tools etc.) 20 167530.43 Added EPF@13% Added ESI @3.25% 13611.85 of wages component 50% of the total Added Contractor Profit@7 % total 11727.13 192869.40 Net Total 2nd Year Plantation 1908.14 954.07 Cleaning of weed/bushes between plantation 0.5 На. 9750,72 101.57 No. 96 Raising of plants in Nursery (30cmx45cm) 2 1926.72 13.38 144 No. 3 Raising of plants in Nursery (15cmx22cm) 1400.20 17.28 81.03 МЗ Re-opening of pits 80x0.6mx0.6mx0.6m 4 885.66 МЗ 10.93 81.03 Re-opening of pits 120x0.45mx0.45mx0.45m 5 Loading and unloading of plants (30X45cm) 88 3.06 269.28 No. 6 132 0.45 59.40 Loading and unloading of plants (15cmX22cm) No. 2239.60 88 25,45 No. 8 Carriage of plants (30X45cm) 333.96 132 2.53 Carriage of plants (15cmX22cm) No. 9 16.22 1427.36 88 Planting of plants (30X45cm) No. 10 6.09 803.88 132 Planting of plants (15cmX22cm) No. 11 4000 6.09 24360.00 Irrigation four times by hired tractor No. 12 7308.00 13 Weeding and Hoeing Three times (30X45cm) No. 1200 6.09 7290.00 14 Weeding and Hoeing Three times (15cmX22cm) No. 1800 4.05 15 Misscellaneous Expenditure LS 1000 Cost of Wages of protection watcher (one protection 16 watcher for six months for plantation area of 10 ha.) 7292 Total 67300.85



45.4	Added EPF@13%	-	-		tangan same sample with
	Added ESI @3.25%				5468.19
	of wages component 50% of the total				4711.00
	Added Contractor Profit@7 % total	-	-		77480.10
- 114 51	Net Total		Land		77 100120
3rd Year Pl	Cleaning of weed/bushes between plantation	Ha.	0.5	1908.14	954.0
2	Raising of plants in Nursery (30cmx45cm)	No.	48	101.57	4875.36
	Raising of plants in Nursery (15cmx22cm)	No.	72	13.38	963.30
3	Re-opening of pits 40x.60 mx.60mx.60m	МЗ	3.645	81.03	295.3
	Re-opening of pits 60x.45 mx.45mx.45m	МЗ	5.4675	81.03	443.03
4	Loading and unloading of plants (30X45cm)	No.	44	3.06	134.64
	Loading and unloading of plants (15cmX22cm)	No.	66	0,45	29.70
5	Carriage of plants (30X45cm)	No.	44	25,44	1119.30
75	Carriage of plants (15cmX22cm)	No.	66	2.53	166.98
6	Planting of plants (30X45cm)	No.	44	16.22	713.68
	Planting of plants (15cmX22cm)	No.	66	6.09	401.94
7	Irrigation two times	No.	2000	6.09	12180.00
8	Weeding and Hoeling (30X45cm)	No.	400	6.09	2436.00
	Weeding and Hoeing (15cmX22cm)	No.	600	4.05	2430.00
9	Misscellaneous Expenditure Cost of Wages of protection watcher (one protection	LS			1000
	watcher for three months for plantation area of 10				
10	ha.)	LS			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
th Year Pla					Section of the sectio
	Cost of Wages of protection watcher (one protection				**************************************
4	watcher for three months for plantation area of 10 ha.)				
	Cleaning , pruning, Spacing and thinning	LS		0	3646
	Misscellaneous Expenditure	LS		- 0	5000 , 2500
	Total				11146
	Added EPF@13%				11140
	Added ESI @3.25%				
	of wages component 50% of the total		,		905,61
	Added Contractor Profit@7 % total				780.22
	Net Total				12831.83
h Year Pla					
	Cost of Wages of protection watcher (one protection				-
	watcher for three months for plantation area of 10 ha,)	•			
	Cleaning , pruning, Spacing and thinning				3646
	Misscellaneous Expenditure	LS		0	5000
3	Total	LS			2500
	Added EPF@13%				11146
-	Added ESI @3.25%				
	of wages component 50% of the total				905.61
	Added Contractor Profit@7 % total			-	780.22
	Net Total				12831.83
h Year Plan					12031.83
V	Cost of Wages of protection watcher (one protection watcher for three months for plantation area of 10	•			•
1 1	na.)				2015
-	Cleaning , pruning, Spacing and thinning	LS			3646
3 1	Misscellaneous Expenditure	- 13		0	5000
7	otal *				2500 11146
	dded EPF@13%				11146
	dded ESI @3.25%				
0	f wages component 50% of the total				905.61
	dded Contractor Profit@7 % total	Control of the Contro			

	Net Total			12831.83
th Year Plan	station			
10	Cost of Wages of protection watcher (one protection)			
,	watcher for three months for plantation area of 10			3646
	ha.)			5000
2	Cleaning , pruning, Spacing and thinning	LS	0	
3	Misscellaneous Expenditure			2500
	Total		3 3 3	11146
	Added EPF@13%			
	Added ESI @3.25%			
	of wages component 50% of the total			905.6
	Added Contractor Profit@7 % total			780.2
	Net Total			12831.8
Ith Year Plai	ntation			
	Cost of Wages of protection watcher (one protection			
	watcher for three months for plantation area of 10			364
	ha, }	16	0	500
	Cleaning, pruning and Spacing	LS	•	250
3	Misscellaneous Expenditure			
	Total			1114
	Added EPF@13%			
	Added ESI @3.25%	,		
	of wages component 50% of the total			905.6
	Added Contractor Profit@7 % total			780.2
	Net Total			12831.8
th Year Pla	ntation	1		
	Cast of Wages of protection watcher (one protection	THE SECOND SECOND		
	watcher for three months for plantation area of 10			
1	ha.)			364
2	Cleaning , pruning, Spacing and thinning	LS	0	500
3	Misscellaneous Expenditure	Market C		250
	Total			1114
	Added EPF@13%			
	Added ESI @3.25%			
	of wages component 50% of the total			905.6
	Added Contractor Profit@7 % total			780.2
	Net Total			12831.8
10th Year Pl				
	Cost of Wages of protection watcher (one protection			
	watcher for three months for plantation area of 10			
1	ha.)			364
	Cleaning , pruning, Spacing and thinning	LS	0	500
	Misscellaneous Expenditure			250
	Total			1114
	Added EPF@13%			
	Added ESI @3.25%			-
***************************************				905.6
	of wages component 50% of the total			-
	Added Contractor Profit@7 % total			780.2
	Net Total			12831.8
	ABSTRACT OF COST	1		
		Cost (in Rs.)	Cost per plant	
	YEAR OF PLANTATION		403 07	
	FIRST YEAR PLANTATION	192869.40	192.87	
	FIRST YEAR PLANTATION SECOND YEAR PLANTATION	77480.10	77,48	
	FIRST YEAR PLANTATION		77,48 36.60	(
	FIRST YEAR PLANTATION SECOND YEAR PLANTATION	77480.10	77,48	(
	FIRST YEAR PLANTATION SECOND YEAR PLANTATION THIRD YEAR PLANTATION	77480.10 36597.63	77,48 36.60	
	FIRST YEAR PLANTATION SECOND YEAR PLANTATION THIRD YEAR PLANTATION FOURTH YEAR PLANTATION	77480.10 36597.63 12831.83	77,48 36.60 12.83	
	FIRST YEAR PLANTATION SECOND YEAR PLANTATION THIRD YEAR PLANTATION FOURTH YEAR PLANTATION FIVE YEAR PLANTATION	77480.10 36597.63 12831.83 12831.83 12831.83	77,48 36.60 12.83 12.83	Divisio
	FIRST YEAR PLANTATION SECOND YEAR PLANTATION THIRD YEAR PLANTATION FOURTH YEAR PLANTATION FIVE YEAR PLANTATION SIX YEAR PLANTATION SEVEN YEAR PLANTATION	77480.10 36597.63 12831.83 12831.83 12831.83 12831.83	77,48 36.60 12.83 12.83 12.83 12.83	
	FIRST YEAR PLANTATION SECOND YEAR PLANTATION THIRD YEAR PLANTATION FOURTH YEAR PLANTATION FIVE YEAR PLANTATION SIX YEAR PLANTATION SEVEN YEAR PLANTATION EIGHT YEAR PLANTATION	77480.10 36597.63 12831.83 12831.83 12831.83 12831.83 12831.83	77.48 36.60 12.83 12.83 12.83 12.83	- Divisio
	FIRST YEAR PLANTATION SECOND YEAR PLANTATION THIRD YEAR PLANTATION FOURTH YEAR PLANTATION FIVE YEAR PLANTATION SIX YEAR PLANTATION SEVEN YEAR PLANTATION	77480.10 36597.63 12831.83 12831.83 12831.83 12831.83	77,48 36.60 12.83 12.83 12.83 12.83	

Forest Officendergarh

