Title of the Project : **Diversion 0.005 ha. of forest land for access to M/s BKB MFERT Pvt. Ltd. in K.m 34.49, RHS on Karnal-Nissing-Kaithal road(SH-08), Tehsil Nissing, Distt. Karnal, (Haryana).**

Proposal No. **FP/HR/APPROACH/145032/2021.**

CHECK LIST SERIAL NUMBER: 18
"SCHEME FOR COMPENSATORY AFFORESTATION"

Name of the Forest/Reach to be diverted: **Diversion 0.005 ha. of forest land for access to M/s BKB MFERT Pvt. Ltd. in K.m 34.49, RHS on Karnal-Nissing-Kaithal road(SH-08), Tehsil Nissing, Distt. Karnal, (Haryana).**

Forest Area = **0.005 Hect.**

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

Division :-	**Karnal**	District :-	**Karnal**
Tehsil:-	**Nissing**	Range :-	**Assandh**

C.A. Site name **: Nissing Drain.**

Area to be Afforested :- **110 Plants =0.110 Hec.**

a) Whether the site selected for Compensatory Afforestation is a Land bank (Yes or No):- **No, the site selected for compensatory Afforestation is not a land bank. It is a Degraded Forest Land.**

b) If the CA site is other than the land bank, reasons be given:- **There is no land available in the land bank in Karnal. Plantation will be carried out in protected forest area.**

c) In case of non-forest area identified for CA, then what is the distance of CA site from the adjoining forest boundary :-:- **C.A. will be carried out in protected forest Area.**

i) Soil type: **Sandy Loam**

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:

1. Schedule of Plantation Programme:-

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

The plantation cost is calculated for TP & NP norms as per PCCF, Haryana, Panchkula letter no. FCA/396 dated. 15.05.2023 wages rate @ of Rs.405.11/- per day(Plain Areas).

Year	**Rate per Plant**
1st Year cost of afforestation	Rs. 192.87/- Per Plant
2nd Year maintenance	Rs. 77.48/- Per Plant
3rd Year maintenance	Rs. 36.60/- Per Plant
4th Year maintenance	Rs. 12.83/- Per Plant
5th Year maintenance	Rs. 12.83/- Per Plant
6th Year maintenance	Rs. 12.83/- Per Plant
7th Year maintenance	Rs. 12.83/- Per Plant
8th Year maintenance	Rs. 12.83/- Per Plant
9th Year maintenance	Rs. 12.83/- Per Plant
10th Year maintenance	Rs. 12.83/- Per Plant
Total	**396.77/-**

Area to be Diverted :- **0.005 ha.**

No. of trees to be felled :- 7

Plants to be damaged:- 5

Plants to be planted (Ten time of the trees to be felled): NA

Area to be Planted = Double area@ 1000 plant per ha.=NA

Minimum Plants to be Planted: - (CA)110 Plants = 0.110 ha.

Additional C.A. in lieu of plants to be damaged (Double the plants to be damaged) :- 5x2=10

Sr. No.	**DESCRIPTION**		**RATE**	**TOTAL AMOUNT (Rs.)**
A	**Compensatory Afforestation Charges**	**No. of Plants**		
	(1) 1st Year cost of afforestation	100 Plants	Rs.192.87/- Per Plant	19287
	(2) 2nd 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
	(6) 6th Year maintenance		Rs. 12.83/- Per Plant	1283
	(7) 7th Year maintenance		Rs. 12.83/- Per Plant	1283

	(8) 8th Year maintenance		Rs. 12.83/- Per Plant	1283
	(9) 9th Year maintenance		Rs. 12.83/- Per Plant	1283
	(10) 10th Year maintenance		Rs. 12.83/- Per Plant	1283
	Fencing/Miscellaneous/Overhead Charges		**(20% of CA Amount)**	7935
	Total CA Charges			**47611**
B	**Additional Compensatory Afforestation Charges**			
	(1) 1st Year cost of afforestation	10	Rs.192.87/- Per Plant	1929
	(2) 2nd Year maintenance		Rs. 77.48/- Per Plant	775
	(3) 3rd Year maintenance		Rs. 36.60/- Per Plant	366
	(4) 4th Year maintenance		Rs. 12.83/- Per Plant	128
	(5) 5th Year maintenance		Rs. 12.83/- Per Plant	128
	(6) 6th Year maintenance		Rs. 12.83/- Per Plant	128
	(7) 7th Year maintenance		Rs. 12.83/- Per Plant	128
	(8) 8th Year maintenance		Rs. 12.83/- Per Plant	128
	(9) 9th Year maintenance		Rs. 12.83/- Per Plant	128
	(10) 10th Year maintenance		Rs. 12.83/- Per Plant	128
	Fencing/Miscellaneous/Overhead Charges		**(20% of ACA Amount)**	793
	Sub Total (B) Total Addl. C.A. Charges			**4759**
C	Penal C.A.		-	NA
D	**Catchment Area Treatment**			
	Soil and Moisture Conservation charges		30% of the Total CA	0
	Sub Total (D)			**0**
E	Safety Zone			**NA**
F	**Additional Charges**			
	Tree Guard @2000x100			0
	....			0
	Sub Total (F)			
G	Plantation damage charges = Not app		Rs. 236/- per plant	0
	GRAND TOTAL (A+B+C+D+E+F+G+H) to be deposited in CAMPA Fund			**52370**

2. **Technical details:-**

Technical details of Compensatory Afforestation Scheme are as follows:-

a) **General Detail** :- Compensatory Afforestation will carried out along With, **Nissing Drain**

b) Spacing:- 4x4mtr a Part

c) Species:- Neem &Shisham, Jamun/Jamoa etc.

d) Plantation method :- Tall Plantation

Soil and Moisture Conservation Works :- -Nil-

f) Protection (Fencing, Watch man, People's, Participation etc) :- Fencing

g) Proposed Monitoring Mechanism: - Checking of Plantation work will be done by RFO,DCF,CF&DCF(M&E)

h) Any other information :- Nil

Divisional Forest Officer,
Karnal.

Divisional Forest Officer
Karnal Forest Division
KARNAL

Place:- Karnal

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

Sr no.	Item of Work	Unit	Qty.	405.11 /- Rate/unit(Rs)	Amount (Rs.)
Ist 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 (600x0.45mx0.45mx0.45m)	M3	54.675	141.77	7751.27
7	Loading and unloading of plants in Tractor/Cart. (30X45cm)	No.	440	3.06	1346.40
8	Loading and unloading of plants in Tractor/Cart. (15cmX22cm)	No.	660	0.45	297.00
9	Carriage of plants (30X45cm)	No.	440	25.45	11198.00
10	Carriage of plants (15cmX22cm)	No.	660	2.53	1669.80
11	Plantation of plants including 10% replacement (30X45cm)	No.	440	16.22	7136.80
12	Plantation of plants including 10% replacement (15cmX22cm)	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 and Hoeing (30X45cm)	No.	400	8.08	3232.00
16	First Weeding and Hoeing (15cmX22cm)	No.	600	6.09	3654.00
17	Subsequent weeding and hoeing two times (30X45cm)	No.	800	6.09	4872.00
18	Subsequent weeding and hoeing two times (15cmX22cm)	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 (30X45cm)	No.	88	3.06	269.28
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 (15cmX22cm)	No.	132	2.53	333.96
10	Planting of plants (30X45cm)	No.	88	16.22	1427.36
11	Planting of plants (15cmX22cm)	No.	132	6.09	803.88
12	Irrigation four times by hired tractor	No.	4000	6.09	24360.00
13	Weeding and Hoeing Three times (30X45cm)	No.	1200	6.09	7308.00
14	Weeding and Hoeing Three times (15cmX22cm)	No.	1800	4.05	7290.00
15	Misscellaneous 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%				5468.19
	of wages component 50% of the total				4711.06
	Added Contractor Profit@7 % total				77480.10
	Net Total				
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
	Raising of plants in Nursery (15cmx22cm)	No.	72	13.38	963.36
3	Re-opening of pits 40x.60 mx.60mx.60m	M3	3.645	81.03	295.35
	Re-opening of pits 60x.45 mx.45mx.45m	M3	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	1119.36
	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 Hoeing (30X45cm)	No.	400	6.09	2436.00
	Weeding and Hoeing (15cmX22cm)	No.	600	4.05	2430.00
9	Misscellaneous Expenditure	LS			1000
10	Cost of Wages of protection watcher (one protection watcher for three months for plantation area of 10 ha.)	LS			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					
1	Cost of Wages of protection watcher (one protection watcher for three months for plantation area of 10 ha.)				3646
2	Cleaning , pruning, Spacing and thinning	LS		0	5000
3	Misscellaneous 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					
1	Cost of Wages of protection watcher (one protection watcher for three months for plantation area of 10 ha.)				3646
2	Cleaning , pruning, Spacing and thinning	LS		0	5000
3	Misscellaneous 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					
1	Cost of Wages of protection watcher (one protection watcher for three months for plantation area of 10 ha.)				3646
2	Cleaning , pruning, Spacing and thinning	LS		0	5000
3	Misscellaneous 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				

	Net Total				12831.83
7th Year Plantation					
1	Cost of Wages of protection watcher (one protection watcher for three months for plantation area of 10 ha.)				3646
2	Cleaning , pruning, Spacing and thinning	LS		0	5000
3	Misscellaneous 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 three months for plantation area of 10 ha.)				3646
2	Cleaning , pruning and Spacing	LS		0	5000
3	Misscellaneous 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 three months for plantation area of 10 ha.)				3646
2	Cleaning , pruning, Spacing and thinning	LS		0	5000
3	Misscellaneous 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 three months for plantation area of 10 ha.)				3646
2	Cleaning , pruning, Spacing and thinning	LS		0	5000
3	Misscellaneous 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