

Full Title of the Project: Diversion of 0.0362 Ha. forest land for access to HPCL Retail Outlet bearing Khasra No. 140//17/2, 18/2, 24/1 on Hisar City - Hisar Delhi Bypass road, at Village Satrod Khas, at District Hisar & District Hisar, under forest Division & Distt. Hisar Haryana.

CHECK LIST SERIAL NUMBER:- 18

FP/HR/Approach/157239/2022
Date of Proposal: 22/06/2022

C.A. Scheme

0.0362

Detailed scheme for Compensatory Afforestation to be carried out in lieu of ha., of forest area to be diverted for

Details of de-graded forest land/non forest land where CA is to be carried out :			CA site - Balsmand Branch RD 70-72 L/Side		
Division :	Hisar	District	Hisar	Village.	Satrod Khas
2).	Description of Area :				
i	Whether the site selected for Compensatory Afforestation is a Land Bank (Yes or No)				Yes
ii	If the C.A site is other than the Land Bank, reasons be given				N.A
iii	In case of Non-Forest Area identified for CA, then what is the distance of CA site from adjoining forest boundary				N.A
iv	Soil Type				Sandy Loam
v	Topography :		a. Hilly/Undulating/Plain.		
			b. Slope:-Steep/Medium/Gentle.		
vi	Whether the area is bearing any root stock of vegetation				No.

3 Plantation of Model:-

Copy of the approved Compensatory Afforestation Scheme/Model showing component wise physical and financial break up is as under :-

Detail of year wise breakup of requirement of funds is as under :-

As per PCCF (HoFF) Har. Pkl. Letter No FCA/396 dated 15.05.2023. Norms of tall plants under CA demand in FCA diversion proposals at as wage rate of Rs. 405.11/-per day (in Plain Areas) Cost Norms @1000 plants per Ha. (400 TP & 600 15 X 22 Poly pot plants)

Area to be Diverted	0.0362	
Total Area to be planted in Hac.		0.248
Nos of trees to be felled	6	Nos.
Nos of Plants to be damaged	74	Nos. Plants
Total Nos of Plants to be planted	248	Plants

1 Schedule of Plantation Programme :-

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

Bill

Sr. No.	Description	Rate		Total Amount
		Nos of Plants	Rate Per plant	
A	Compensatory Afforestation Charges			
i	1st Year Cost of Afforestation	100	192.87	19287
ii	2nd Year Maintenance	100	77.48	7748
iii	3rd Year Maintenance	100	36.60	3660
iv	4th Year Maintenance	100	12.83	1283
v	5th Year Maintenance	100	12.83	1283
vi	6th Year Maintenance	100	12.83	1283
vii	7th Year Maintenance	100	12.83	1283
viii	8th Year Maintenance	100	12.83	1283
ix	9th Year Maintenance	100	12.83	1283
x	10th Year Maintenance	100	12.83	1283
Total				39676

B Additional Compensatory Afforestation Charges				
i	1st Year Cost of Afforestation .	148	192.87	28545
ii	2nd Year Maintenance	148	77.48	11467
iii	3rd Year Maintenance	148	36.60	5417
iv	4th Year Maintenance	148	12.83	1899
v	5th Year Maintenance	148	12.83	1899
vi	6th Year Maintenance	148	12.83	1899
vii	7th Year Maintenance	148	12.83	1899
viii	8th Year Maintenance	148	12.83	1899
ix	9th Year Maintenance	148	12.83	1899
x	10th Year Maintenance	148	12.83	1899
			Total	58720

	Fencing/Miscellaneous/Overhead Charges/Supervisory (20% of CA Amount)		C.A. & Add. C.A. Charges	19679
	Total (B) A.C.A. Charges			78400
	Total (A) & (B)			118076
	Or Say Rs.			118076
C	Penal C.A.			0
D	Catchment Area Treatment			0
E	Soil and Moisture Conservation Charges		30% of the Total C.A.	0.00
	Total (C+D+E) Or Say Rs.			0
F	Safety Zone (if required)			0
G	Additional Charges (if required)	Qty.	Rate	0
	Total (F+G)			0
H	Felling Charges (Vol. M3)	0.00	Rs.1200 /- per m ³	0
Grand Total (A+B+C+D+E+F+G+H) to be deposited in CAMPA Fund				118076

Technical Details :-

2 Technical Details of Compensatory Afforestation Scheme are as follows :-

a	General Details	Plantation will be done with 6 standard barbed wire in
b	Spacement.	4 x 4 mtr.
c	Species.	Shisham, Kikar, Neem, Bakain and etc.
d	Plantation Method.	Strip Plantation.
e	Soil and Moisture Conservation Works.	Hoeing, Weeding & Soil Work.
f	Protection (Fencing, watchman, Peoples Participation)	Fencing with Barbed Wire/Protection Watcher
g	Proposed Monitoring Mechanisim.	Inspection by officers.
h	Any Other Information	No any.

Divisional Forest Officer,
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Felling Charge				
	Description	Total Vol. In Cum	Rate	Total Amount (in Rs.)
A	Felling Charge	6.89	1200	8268
Or Say Rs.				8268
Total Felling Charge Payable Amount				8268


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NPV Calculation Sheet

Net Present Value to be realized in lieu of diversion of 0.0362 Ha. of forest land for **Diversion of 0.0362 Ha. forest land for access to HPCL Retail Outlet bearing Khasra No. 140//17/2, 18/2, 24/1 on Hisar City - Hisar Delhi Bypass road, at Village Satrod Khas, at District Hisar & District Hisar, under forest Division & Distt. Hisar Haryana.** have been fixed based on the outcome scientific accessment of ecosystem goods and services.

In this case NPV is calculated as per **Eco Class III (Open)** @ 957780/- per ha. Fitment factor of 1.53 i.e @

Diverted Land 0.0362 X 957780 = 34672

Divisional Forest Officer
Divisional Forest Officer (T),
Hisar
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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.)
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 (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	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

120

	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
	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	Miscellaneous 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%				
	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 three 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 three 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 three 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 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		