

Area to be Diverted : 5.69 ha.

No. of Tree to be felled : 1782

No. of Plant to be damaged: 0

Plants to be Planted under Normal CA : 11380 (5.69 x 2 @ 1000 plants per ha.)

Area to be Planted under Normal CA : 11.38 ha. (Double the area to be diverted)

Plant to be planted under Penal CA: 0.00 (@1000 Plant per hect.)

Additional CA is lieu of Plants to be damaged (Double the plants to be Damaged) =0 (@ 1000 plants per ha.)

Area to Planted under Addl. CA : 0 hect (@ 1000 plants per ha.)

Total No. of Plants to be Planted (CA + Penal CA) : 11380

Total Area to be Planted (CA+ Penal.CA) 11.38 (@ 1000 plants per ha.)

S.No	DESCRIPTION		RATE	TOTAL AMOUNT (Rs.)
A	Compensatory Afforestation Charges	No. of Plants		
	(1) 1 st Year cost of afforestation	11380	Rs. 192.87/- Per Plant	2194861
	(2) 2 nd Year maintenance	(4552 TP and 6828 Large Shrubs or small Plants)	Rs. 77.48/- Per Plant	881722
	(3) 3 rd Year maintenance		Rs. 36.60/- Per Plant	416508
	(4) 4 th Year maintenance		Rs. 12.83/- Per Plant	146005
	(5) 5 th Year maintenance		Rs. 12.83/- Per Plant	146005
	(6) 6 th Year maintenance		Rs. 12.83/- Per Plant	146005
	(7) 7 th Year maintenance		Rs. 12.83/- Per Plant	146005
	(8) 8 th Year maintenance		Rs. 12.83/- Per Plant	146005
	(9) 9 th Year maintenance		Rs. 12.83/- Per Plant	146005
	(10) 10 th Year maintenance		Rs. 12.83/- Per Plant	146005
			Total C.A.	
	Fencing/ Miscellaneous/ Overhead Charges/ Supervisory Charges (20% of CA amount)		20% of CA amount/ charges	903025
Total (A) C.A. Charges				5418151
B	Additional Compensatory Afforestation Charges/			
	(1) 1 st Year cost of afforestation	0	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
	(11) Barbed wire fencing charge= 0.0 RKM		Rs.200000/- Per RKM	0
Total (B) Addl. C.A. Charges				0

C Penal CA Charges				
(1)	1 st Year cost of afforestation	0	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
	(11) Barbed wire fencing charge= 0 RKM		Rs.200000/- Per RKM	0
Total (B) Addl. C.A. Charges				0
D Catchment Area Treatment				
Soil and Moisture Conservation charges		0		0
Total (D)				0
Contingency Charges				0
F Additional Charges (If required) Qty Rate				
Survey & Demarcation				0
Equipment for Silvicultural Operations				0
Field Petrolling Vehicle (Mahindra Scorpio)				0
Guard Room				0
Tractor 1 No.				0
Trolley & Tanker				0
Total (F)				0
G	Penalty for violation as provision B(i) of MoEFCC Letter No. 11-42/2017-FC dt 29-01-2018 with interest. Period of violation from to (No. of days=) to Be taken 20 % as Govt. Project		Actual NPV+ Interest @ 12% per annum ()	0
H	Less 20 % of NPV			0
I	Total NPV+ Interest @12% per annum			0
J	Felling charges = 1068.22 m ³ (1782 trees)		Rs.1200 /- per m ³	1281864
GRAND TOTAL (A+B+C+D+E+F+G+H+I+J) to be deposited in CAMPA Fund				6700015

Technical details:-

Technical details of Compensatory Afforestation Scheme are as follows :-

- General Details:- Plantation will be done with Chain link fencing & Barbed wire fencing.
- Spacing:- 1x1 meter (1st ROW)
- Species:- Kaner, Yellow Kaner, Tikolma Bogain bel etc.
 - Plantation Method Small Height Plantation
 - Spacing 3x3 meter (2nd ROW)
 - Species:- Guddal, bottle Brush. Chakrasia, Kusum, Sahtoot, etc.
 - Plantation Method Medium Height Plantation
 - Spacing 4x4 meter (3rd ROW)
 - Species:- Shisham, Neem, Jamun, Jamova, Bel Pather, Lasora, Arjun, Papri, siris etc.
- Plantation Method :- **Pit Planting**
- Soil and Moisture Conservation Works - **As per Rule**
- Protection (Fencing, Watch man, People's Participation etc.): - **Fencing (Chain Link & Barbed Wire)**
- Proposed Monitoring Mechanism:- **by M&E wing.**
- Any Other information:- Nil.

Note : CF (T) should countersign this C.A. scheme if area to be afforested is more than 5 hectare.


Divisional Forests Officer
Jind

Full Title of the Project: Diversion of 33.71 hect. (5.69 hect in Jind Division, 17.79 ha in Hisar Division and 10.23 hect. in Fatehabad Division of Forest land in favour of Executive Engineer, Aadampur W/s Division Hisar for Cons. of Nuclear for supply 180 Cs water to Nuclear Power Plant at village Gorakhpur on Old abandoned Sirsa Branch from RD 388500 to 424780 falling under Forest Division and District Jind (Haryana).

Proposal No

FP/HR/Canal/152229/2022.

CHECK LIST SERIAL NUMBER: 18

“ AMOUNT OF NET PRESENT VALUE ”

Description	Rate per Hect.	Total Amount
Net Present Value of Forest Land to be diverted 33.71 ha	1357110/- per hect	7721956.00

Vegetation Density

0.3

ECO Class

III

Trees Effectd

1782 NosTrees (Volume 1068.22 m3) of different class and different species trees will be effected.

Place : Jind

Dated 13-06-2023


Divisional Forest Officer
Divisional Forests Officer
Jind Forest Division
JIND

Office Seal.....

PRINCIPAL CHIEF CONSERVATOR OF FORESTS, HARYANA,
FOREST DEPARTMENT.

C-18, Van Bhawan, Sector -6, Panchkula Tel/Fax +91 172 2563861, E-mail: effcpanchkula@gmail.com

No. FCA/396

Date:- 15/05/2023

[To be substituted with earlier letter bearing same number and date.]

To

All Divisional Forest Officers (Territorial)
Haryana

**Subject:- Cost Norms for Compensatory Afforestation under Forest
Conservation Act 1980 and CAMPA.**

With a view to standardize the rates of Compensatory Afforestation (CA) required to be charged from the user agencies for diversion of forest land for non-forestry purpose under section-2 of the Forest Conservation Act, 1980 it has been decided as under:-

i) In hill regions (Annexure -I)

Abstract of Cost Norms @1000 plants per Ha. (small poly pot plants)

- ABSTRACT OF COST NORMS		
YEAR OF PLANTATION	Cost (in Rs.)	Cost per plant
FIRST YEAR PLANTATION	169740.54	169.74
SECOND YEAR PLANTATION	36563.48	36.56
THIRD YEAR PLANTATION	20931.96	20.93
FOURTH YEAR PLANTATION	9953.71	9.95
FIVE YEAR PLANTATION	9953.71	9.95
SIX YEAR PLANTATION	9953.71	9.95
SEVEN YEAR PLANTATION	9953.71	9.95
EIGHT YEAR PLANTATION	9953.71	9.95
NINE YEAR PLANTATION	9953.71	9.95
TEN YEAR PLANTATION	9953.71	9.95
TOTAL	296911.93	296.91
Supervisory/overhead/Miscellaneous/ fencing charges (20% of CA Amount)	59382.39	59.38
G. TOTAL	356294.32	356.29

ii) In Plain regions (Annexure -II)

Abstract of Cost Norms @1000 plants per Ha. (400 TP & 600 15x22 Poly pot plants)

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

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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
Fencing/Miscellaneous/Overhead Charges / Supervisory Charges (20% of CA Amount)	79353.99	79.35
G. TOTAL	476123.96	476.12

Note:- Plantation will be done with 400 Tall Plants and 600 Large shrubs and/or small trees which are shade philic.

iii) In Single Ridges (Annexure -III)

ABSTRACT OF COST NORMS		
YEAR OF PLANTATION	Cost (in Rs.)	Cost per plant
FIRST YEAR PLANTATION	312262.50	312.26
SECOND YEAR MAINTENANCE	74459.64	74.46
THIRD YEAR MAINTENANCE	61648.14	61.65
FIRST YEAR PLANTATION	30873.28	30.87
SECOND YEAR MAINTENANCE	30873.28	30.87
THIRD YEAR MAINTENANCE	30873.28	30.87
FIRST YEAR PLANTATION	30873.28	30.87
SECOND YEAR MAINTENANCE	30873.28	30.87
THIRD YEAR MAINTENANCE	30873.28	30.87
THIRD YEAR MAINTENANCE	30873.28	30.87
TOTAL	664483.21	664.48
Fencing/Miscellaneous/Overhead Charges/ Supervisory Charges (20% of CA Amount)	132896.64	132.90
G. TOTAL	797379.86	797.38

Note:- Ridge will be made only to extent of water logged. In area free from water logging the norm will be same as for plain area.

iv) Tall Plantation on Mounds (Annexure -IV)

ABSTRACT OF COST NORMS		
YEAR OF PLANTATION	Cost (in Rs.)	Cost per plant
FIRST YEAR PLANTATION	559866.92	559.87
SECOND YEAR MAINTENANCE	146348.50	146.35
THIRD YEAR MAINTENANCE	117776.02	117.78
FIRST YEAR PLANTATION	35901.88	35.90
SECOND YEAR MAINTENANCE	35901.88	35.90
THIRD YEAR MAINTENANCE	35901.88	35.90
FIRST YEAR PLANTATION	35901.88	35.90
SECOND YEAR MAINTENANCE	35901.88	35.90
THIRD YEAR MAINTENANCE	35901.88	35.90
THIRD YEAR MAINTENANCE	35901.88	35.90
TOTAL	1075304.58	1075.30
Fencing/Miscellaneous/Overhead Charges/ Supervisory Charges (20% of CA Amount)	215060.92	215.06
G. TOTAL	1290365.49	1290.37

Note:- Mounds will be made only to extent of water logged. In area free from water logging, the norm will be same as for plain area.

- v) These norms have been arrived at the wage rate of Rs. 405.11 /- and the wage rate being dynamic, pro-data revisions will be made by the Divisional Forest Officers consistent with the prevalent wage rate.
- vi) This is a general specification for ensuring transparency and excluding discretion. In case, at the time of plantation, it is felt that additional inputs are needed for success of plantations, additional demand for funds for that area can be placed with due justification and the same can be met from the NPV funds. However, the charges of CA from the User Agency should be made only to the extent of above specification. The rates of additional CA or penal CA, if required to be charged, should also follow these norms.
2. The rates of NPV will be determined by MoEF&CC from time to time.

Encl./As above


7/5/2023
Principal Chief Conservator of Forests (HoFF)
Haryana, Panchkula.

Endst. No.:

Dated:

A copy is forwarded to the following for information and necessary action:-

1. Dy Director General of Forests (Central), IRO, MoEF&CC, Chandigarh.
2. Addl. Chief Secretary to Govt. of Haryana, Environment, Forests & Wildlife Department, Chandigarh.
3. Addl. Principal Chief Conservator of Forests-Cum- Nodal Officer (FC), Haryana, Panchkula.
4. All Chief Conservator of Forests (T), Haryana.

Encl./As above


7/5/2023
Principal Chief Conservator of Forests (HoFF)
Haryana, Panchkula.

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%				13611.85
	of wages component 50% of the total				11727.13
	Added Contractor Profit@7 % total				192869.40
	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

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

		Ha.	0.5	1908.14	954.07
1	Cleaning of weed/bushes between plantation	No.	48	101.57	4875.36
2	Raising of plants in Nursery (30cmx45cm)	No.	72	13.38	963.36
	Raising of plants in Nursery (15cmx22cm)	M3	3.645	81.03	295.35
3	Re-opening of pits 40x.60 mx.60mx.60m	M3	5.4675	81.03	443.03
	Re-opening of pits 60x.45 mx.45mx.45m	No.	44	3.06	134.64
4	Loading and unloading of plants (30X45cm)	No.	66	0.45	29.70
	Loading and unloading of plants (15cmX22cm)	No.	44	25.44	1119.36
5	Carriage of plants (30X45cm)	No.	66	2.53	166.98
	Carriage of plants (15cmX22cm)	No.	44	16.22	713.68
6	Planting of plants (30X45cm)	No.	66	6.09	401.94
	Planting of plants (15cmX22cm)	No.	2000	6.09	12180.00
7	Irrigation two times	No.	400	6.09	2436.00
8	Weeding and Hoeling (30X45cm)	No.	600	4.05	2430.00
	Weeding and Hoeling (15cmX22cm)	LS			1000
	Miscellaneous Expenditure				
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

	Cost of Wages of protection watcher (one protection watcher for three months for plantation area of 10 ha.)				3646
1	Cleaning , pruning, Spacing and thinning	LS		0	5000
3	Miscellaneous 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

	Cost of Wages of protection watcher (one protection watcher for three months for plantation area of 10 ha.)				3646
1	Cleaning , pruning, Spacing and thinning	LS		0	5000
3	Miscellaneous 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

	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%					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

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