

Full Title of the Project : Diversion of 6.4022 ha. of forest land along WJC main branch for providing concrete side line with paver in reach RD 96000-126415 L/side including reconstruction / remodling of pacca structure in Tehsil Karnal, under Division and Distt. Karnal.

File No. : FP/HR/IRRIG/41538/2019

Date of Proposal : 07-08-2019

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

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

Division and District Sonapat.

Tehsil Gohana & Range Gohana

CA site Name : Irrigation Department land to Transfer in Siwana Mall village.

Longitude : 76° 35' 50.20"E Latitude : 29° 15' 45.05"N

76° 35' 45.12"E Latitude : 29° 15' 44.42"N

76° 35' 45.36"E Latitude : 29° 15' 41.98"N

76° 35' 50.13"E Latitude : 29° 15' 43.34"N

Area to be afforested :-

e) Whether the site selected for Compensatory Afforestation is a land bank (Yes or No) :
No

f) If the CA site is other than the land bank, reasons be given :- **There is not land bank in District Sonapat.**

In case of non- forest area identified for CA, then what is the distance of CA site from the adjoining forest boundary:-

k) Soil type : **Clay Loan**

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 to as under :-

1. Schedule of Plantation Programme:-

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

The plantation cost is calculated for tall plants norms at 4m x 2½m spacing at the wage rate of 326.82/- per daily as under:-

Year	Rate per plants
1st year cost of afforestation	Rs. 359.10/- per plant
2 nd year maintenance	Rs. 115.35/- per plant
3 rd year maintenance	Rs. 41.89/- per plant
4 th year maintenance	Rs. 15.58/- per plant
5 th year maintenance	Rs. 15.58/- per plant
6 th year maintenance	Rs. 15.58/- per plant
7 th year maintenance	Rs. 15.58/- per plant
8 th year maintenance	Rs. 15.58/- per plant
9 th year maintenance	Rs. 15.58/- per plant
10 th year maintenance	Rs. 15.58/- per plant
Total	Rs. 625.40/-

Area to be Diverted = 1.12 Ha.

No. of trees to be felled = 0

Plants to be damaged = 0

Plants planted under normal CA : 1120

Additional CA in lieu of plants to be damaged (Double the plants to be damaged) = 0

S.No.	DESCRIPTION		Rate	Total Amount (Rs.)
(A)	Compensatory Afforestation charges	No. of plants		
	(1) 1 st year cost of afforestation	1120	Rs. 359.10/- per plant	402192
	(2) 2 nd year maintenance	1120	Rs. 115.35/- per plant	129192
	(3) 3rd year maintenance	1120	Rs. 41.89/- per plant	46917
	(4) 4th year maintenance	1120	Rs. 15.58/- per plant	17445
	(5) 5th year maintenance	1120	Rs. 15.58/- per plant	17445
	(6) 6th year maintenance	1120	Rs. 15.58/- per plant	17445
	(7) 7th year maintenance	1120	Rs. 15.58/- per plant	17445
	(8) 8th year maintenance	1120	Rs. 15.58/- per plant	17445
	(9) 9th year maintenance	1120	Rs. 15.58/- per plant	17445
	(10) 10th year maintenance	1120	Rs. 15.58/- per plant	17445
	(11) Barbed wire fencing charge = 4.48 RKM		@76700	343616
	Total Charge			1044032
	Supervisory/ Overhead/Miscellaneous Charges		10% on the total C.A. charge	104403
	Sub Total (A) CA Charges			1148435
(B)	Additional Compensatory Afforestation charges			
	(1) 1 st year cost of afforestation	0	Rs. 359.10/- per plant	0
	(2) 2 nd year maintenance	0	Rs. 115.35/- per plant	0
	(3) 3rd year maintenance	0	Rs. 41.89/- per plant	0
	(4) 4th year maintenance	0	Rs. 15.58/- per plant	0
	(5) 5th year maintenance	0	Rs. 15.58/- per plant	0
	(6) 6th year maintenance	0	Rs. 15.58/- per plant	0
	(7) 7th year maintenance	0	Rs. 15.58/- per plant	0
	(8) 8th year maintenance	0	Rs. 15.58/- per plant	0
	(9) 9th year maintenance	0	Rs. 15.58/- per plant	0
	(10) 10th year maintenance	0	Rs. 15.58/- per plant	0
	(11) Barbed wire fencing charge = 0.0 RKM		@76700	0
	Total charges			0
	Supervisory/ Overhead/Miscellaneous Charges		10% on the total C.A. charge	0
	Sub Total (B) Additional CA Charges			0

(C)	Penal CA changes.		
(1)	1 st year cost of afforestation	0	Rs. 359.10/- per plant
(2)	2 nd year maintenance	0	Rs. 115.35/- per plant
(3)	3rd year maintenance	0	Rs. 41.89/- per plant
(4)	4th year maintenance	0	Rs. 15.58/- per plant
(5)	5th year maintenance	0	Rs. 15.58/- per plant
(6)	6th year maintenance	0	Rs. 15.58/- per plant
(7)	7th year maintenance	0	Rs. 15.58/- per plant
(8)	8th year maintenance	0	Rs. 15.58/- per plant
(9)	9th year maintenance	0	Rs. 15.58/- per plant
(10)	10th year maintenance	0	Rs. 15.58/- per plant
(11)	Barbed wire fencing charge = 0.0 RKM	@76700	0
	Total Charges		0
	Supervisory/ Overhead/Miscellaneous Charges	10% on the total C.A. charge	0
	Sub Total (C) CA Charges		0
(D)	Catchment Area Treatment		
	Soil and Moisture Conservation	30% of the total CA	344530
	Sub total (D)		344530
(E)	Safety Zone		0.00
(F)	Additional Charges		0.00
	Sub total (F)		0.00
(G)	Net present value of forest land to be diverted	Rs. 887000/- per ha.	0
(H)	Felling charges = 0 tree 0 m3	Rs. 1200/- per m3	0
(I)	Plantation damage charges = 0 plant	Rs. 236 per plants	0.00
	GRAND TOTAL (A+B+C+D+E+F+G+H+I) to be deposited in CAMPA		1492965

2. Technical details:-

Technical details of Compensatory Afforestation Scheme are as follows:-

- General Details : Plantation will be done with 3 strand barbed wire
- Spacing : 4x2½ meter
- Species : Shisham, Neem, Jamun/Jamoya etc.
- Plantation Method : Tall Plantation
- Soil and Moisture Conservation Works : Yes
- Protection (Fencing, Watch man, People's Participation etc.): Fencing
- Proposed Monitoring Mechanism : M&E
- Any other information:- Nil


Divisional Forests Officer
Sonapat.

Full Title of the Project : Diversion of 6.4022 Ha. of Forest Land along WJC Main Branch for Providing Concrete Side lining with paver in reach RD 96000-126415 of WJC Main Branch including Reconstruction/Remodeling of pucca structure in Tehsil Karnal under Forest Division & Distt. Karnal.

File No. :- FP/HR/IRRIG/41538/2019.

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“SCHEME FOR COMPENSATORY AFFORESTATION”

Name of the Forest/Reach to be diverted: Diversion of 6.4022 Ha. of Forest Land along WJC Main Branch for Providing Concrete Side lining with paver in reach RD 96000-126415 of WJC Main Branch including Reconstruction/ Remodeling of pucca structure in Tehsil Karnal under Forest Division & Distt. Karnal.

Urlana Kalan: 1st Site	Latitude	Longitude
	29°21'55.31"N	76°41'19.11"E
	29°21'50.59"N	76°41'18.11"E
	29°21'56.53"N	76°41'19.66"E
	29°21'58.04"N	76°41'13.62"E
Urlana Kalan: 2nd Site	29°21'1.23"N	76°41'5.09"E
	29°20'58.25"N	76°41'5.49"E
	29°20'57.96"N	76°41'5.56"E
	29°20'55.41"N	76°41'7.47"E
Urlana Kalan: 3rd Site	29°20'21.18"N	76°40'37.11"E
	29°20'20.17"N	76°40'43.52"E
	29°20'19.19"N	76°40'35.56"E
	29°20'15.28"N	76°40'41.89"E
Seenk CA Site	Latitude	Longitude
	29°19'2.42"N	76°40'9.32"E
	29°19'2.31"N	76°40'11.56"E
	29°18'56.77"N	76°40'9.89"E
	29°18'56.63"N	76°40'12.84"E

Forest Area = 6.4022 Hect.

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

Division :- **Panipat** District :- **Panipat**

Tehsil:- **Israna** Range :- **Panipat**

C.A. Site name : **Irrigation Department land to transfer in Urlana Kalan and Seenk.**

C.A. Site name/Compt. Survey No. : **H43Q11**

Area to be Afforested :-

- a) Whether the site selected for Compensatory Afforestation is a Land bank (Yes or No): **Yes**
- 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 :-
- i) Soil type: **Good**
- 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 Tall Plants norms at 4m x 2½m spacing at the wage rate of Rs. 347.08/- per day as under:- (inclusion with 10% per year future maintenance cost Norms)

Year	Rate per Plant
1 st Year cost of afforestation	Rs. 395/- Per Plant
2 nd Year maintenance	Rs. 138/- Per Plant
3 rd Year maintenance	Rs. 55/- Per Plant
4 th Year maintenance	Rs. 22/- Per Plant
5 th Year maintenance	Rs. 24/- Per Plant
6 th Year maintenance	Rs. 26/- Per Plant
7 th Year maintenance	Rs. 27/- Per Plant
8 th Year maintenance	Rs. 28/- Per Plant
9 th Year maintenance	Rs. 30/- Per Plant
10 th Year maintenance	Rs. 32/- Per Plant

Area to be Diverted : 6.4022 ha.

No. of Trees to be felled : 708

No. of Plants to be damaged : 3000

Area to be planted under normal CA : 6.4 ha.

Plants to be Planted under normal CA : 6402 (6.4 ha. @ 1000 plants per ha.)

Additional C.A. in lieu of plants to be damaged

(Double the plants to be damaged)= 2843 No.

(2843 plants planted in Panipat Division in Addl. CA Scheme out of 6000 plants)

Area to planted under Addl. CA : 2.84 ha. (2843 plant @ 1000 plants per ha.)

Planted to be planted under Penal CA : Nil

Total No. of plants to be planted (CA+Addl.CA+Penal CA) : 9245 No.

Total Area to be planted (CA+Addl.CA+Penal CA) : 36.98 RKM (9.24 ha.@ 1000 plants per ha.)

The yearly expenditure of 9245 No. Tall Plants and maintenance given below:-

Detail of Year Wise Plantation and Maintenance Cost and Other Expenditure				
S. NO.	DESCRIPTION		RATE	AMOUNT
A	Compensatory Afforestation Charges	No. of Plants		
	Ist Year cost of afforestation	6402	Rs. 395 Per Plant	2528790
	IIInd Year Maintenance		Rs. 138 Per Plant	883476
	IIIrd. Year Maintenance		Rs. 55 Per Plant	352110
	IVth. Year Maintenance		Rs. 22 Per Plant	140844
	Vth Year Maintenance		Rs. 24 Per Plant	153648
	VIth Year Maintenance		Rs. 26 Per Plant	166452
	VIIth Year Maintenance		Rs. 27 Per Plant	172854
	VIIIth Year Maintenance		Rs. 28 Per Plant	179256
	IXth Year Maintenance		Rs. 30 Per Plant	192060
	Xth Year Maintenance		Rs. 32 Per Plant	204864
	Berbed wire fencing charges	RKM 25.608	Rs. 76700/- Per RKM	1964133.6
	Total Charges			6,938,488
	Supervisory/Overhead/Miscellaneous Charges		10% on the CA Charges	693,849
	Total (A) CA Charges			7,632,336
B	Additional Compensatory Afforestation Charges			
	Ist Year cost of afforestation	2843	Rs. 395 Per Plant	1122985
	IIInd Year Maintenance		Rs. 138 Per Plant	392334
	IIIrd. Year Maintenance		Rs. 55 Per Plant	156365

	IVth. Year Maintenance			Rs. 22 Per Plant	62546
	Vth Year Maintenance			Rs. 24 Per Plant	68232
	VIth Year Maintenance			Rs. 26 Per Plant	73918
	VIIth Year Maintenance			Rs. 27 Per Plant	76761
	VIIIth Year Maintenance			Rs. 28 Per Plant	79604
	IXth Year Maintenance			Rs. 30 Per Plant	85290
	Xth Year Maintenance			Rs. 32 Per Plant	90976
	Berbed wire fencing charges	RKM	Rs. 76700/- Per RKM	872232.4	
		11.372			
	Total Charges				3,081,243
	Supervisory/Overhead/Miscellaneous Charges		10% on the CA Charges		308,124
	Total (B) Addl. Charges				3,389,368
C	Catchment Area Treatment				
	Soil and Moisture Conservation Charges		30% of the Total CA		2,289,701
	Total (D)				2,289,701
D	Safety Zone				0
E	Additional other Charges		Qty.	Rate	
	Total (F)		0	0	0
F	Net Present Value of Forest Land to be diverted			Rs. 887000/-per ha.	5,678,751
G	Penalty for violation as per provision B(i) of MoEFCC Letter No. 11-42/2014-FC dt. 29-01-2018 with interest. ---Nil--			---	0
H	Felling Charges		Vol. M ³	Rs. 1200/- per m ³	779,052
			649.21		
	Grand Total (A+B+C+D+E+F+G+H) to be deposited in CAMPA Fund				19,769,208

2. Technical details:-

Technical details of Compensatory Afforestation Scheme are as follows:-

- General Detail :-** Compensatory Afforestation will carried out along With, **Irrigation Department land in Urlana Kalan & Seenk.**
(Yet to be transferred to Forest Department and Non-PF land.)
- Spacing:-** 4x4mtr a Part
- Species:-** Neem & Shisham, Jamun/Jamoa etc.
- Plantation method :-** Tall Plantation
- Soil and Moisture Conservation Works :-** Attached CA Scheme

- 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

Place:-Panipat


Deputy Conservator of Forest,
Panipat

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

Full Title of the Project : Diversion of 6.4022 Hectare of Forest land along WJC Main branch for Providing Concrete Side Lining with paver in reach RD 96000-126415 of WJC Main Branch including Reconstruction / Remodeling of pucca structure in Tehsil Karnal under Forest Division, Distt. Karnal, (Haryana).

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Forest Area Karnal Division = **6.4022 Hect.**

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

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

C.A. Site name : R.F. Bassi

Area to be Afforested for C.A & Add. CA :- **6.18 hect.**

- 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.**

- 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 Reserve 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 reserve forest land.**
- 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 Tall Plants norms at 4m x 2½m spacing at the wage rate of Rs. 326.82/- per day as under:- (inclusion with 10% per year future maintenance cost Norms).

Year	Rate per Plant
1 st Year cost of afforestation	Rs. 395/- Per Plant
2 nd Year maintenance	Rs. 138/- Per Plant
3 rd Year maintenance	Rs. 55/- Per Plant
4 th Year maintenance	Rs. 22/- Per Plant
5 th Year maintenance	Rs. 24/- Per Plant
6 th Year maintenance	Rs. 26/- Per Plant
7 th Year maintenance	Rs. 27/- Per Plant
8 th Year maintenance	Rs. 28/- Per Plant
9 th Year maintenance	Rs. 30/- Per Plant
10 th Year maintenance	Rs. 32/- Per Plant

Area to be Diverted :- **6.4022 ha.**

No. of trees to be felled :- 708

Plants to be damaged:- 3000

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

Area to be Planted for Balance Additional CA = 2.37 hec.(2037 T.P)

Minimum Plants to be Planted for Balance Additional CA : 2037

Sr. No.	DESCRIPTION	RATE	TOTAL AMOUNT (Rs.)
A	Additional Compensatory Afforestation Charges	No. of Plants	
	(1) 1 st Year cost of afforestation	2037 Plants	Rs. 395/- Per Plant 804615
	(2) 2 nd Year maintenance		Rs. 138/- Per Plant 281106
	(3) 3 rd Year maintenance		Rs. 55/- Per Plant 112035
	(4) 4 th Year maintenance		Rs. 22/- Per Plant 44814
	(5) 5 th Year maintenance		Rs. 24/- Per Plant 48888
	(6) 6 th Year maintenance		Rs. 26/- Per Plant 52962
	(7) 7 th Year maintenance		Rs. 27/- Per Plant 54999
	(8) 8 th Year maintenance		Rs. 28/- Per Plant 57036
	(9) 9 th Year maintenance		Rs. 30/- Per Plant 61110
	(10) 10 th Year maintenance		Rs. 32/- Per Plant 65184
	(11) Barbed wire fencing charge=8.148 RKM		Rs. 76700/-Per RKM 624952
	Total CA Charges		2207701
	Supervisory / Overhead / Miscellaneous Charges	10% on the CA charges	220770
	Sub Total (A) Total C.A. Charges		2428471
B	Penal C.A.	-	NA
C	Catchment Area Treatment		
	Soil and Moisture Conservation charges	30% of the Total CA	728541
	Sub Total (C)		728541
D	Safety Zone		NA
E	Additional Charges		
	Demarcation of encroachment Charges		0
	Sub Total (E)		
F	Net Present Value of Forest Land to be diverted	Rs. 887000/- per ha.	0
G	Felling charges	Rs.1200 /- per m ³	0
H	Plantation damage charges = Not app	Rs. 236/- per plant	0
	Grand Total (A+B+C+D+E+F+G+H+I) to be deposited in CAMPA Fund		3157012

2. Technical details:-

Technical details of Compensatory Afforestation Scheme are as follows:-

- a) **General Detail :-** Compensatory Afforestation will carried out along With, **R.F. Bassi**
- b) **Spacing:-** 4x4mtr a Part
- c) **Species :-** Neem & Shisham, Jamun/Jamoa etc.
- d) **Plantation method :-** Tall Plantation
- e) **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-

Place:- Karnal.

Divisional Forest Officer,
Karnal Forest Division
KARNAL

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