

SCHEME FOR COMPENSATORY AFFORESTATION 7 TO 10 YEARS

DETAIL SCHEME FOR COMPENSATORY AFFORESTATION IN 25.73 HECTARE TO BE CARRIED OUT IN LIEU OF 406.73 HECTARE OF DIVERSION OF FOREST AREA FOR THE CONSTRUCTION OF THANA PLAUN (191MW) HYDRO ELECTRIC PROJECT WITHIN JURISDICTION OF MANDI FOREST DIVISION.

Detail of degraded forest/Non forest land			Degraded forest		
District			Mandi.		
Tehsil			Sadar		
Name of Division			Mandi		
Area to be afforested			25.73 Ha		
Sr. No.	Name of Forest Range	Block	Name of forest	Area in ha.	Survey sheet No.
1	Kataula		Bambola	25.73	53E/1
Description of area					
(i)	Whether the site selected for CA is land bank or not				Yes.
(ii)	If the CA site is other than land bank, reason be given				-
(iii)	In case of non forest area indentified for CA than what is the				-
(iv)	Soil Type				Sandy loam
(v)	Topography a) Hilly/Universal/Plain				Hilly
(vi)	b) Slope; steep/Medium/ Gentle				Medium
(vii)	Whether the area is bearing any root stock of vegetation				Bushes.
3	Plantation Model:- Copy of approved Compensatory				Attached.
4	Schedule of Plantation Programme				

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

Compensatory afforestation (1100 plants/Hac.) with RCC Fence Post and 4-strand Barbed wire fencing				
S.No.	Particulars including soil & Moisture conservation.	Qty. in ha	Rate in Rs. (per ha)	Amount
1	Survey, Demarcation and Fencing	25.73	38500	990605
	PLANTING	25.73	45160	1161967
			Total	2152572
2	Maintenance			
	1 st year	25.73	9100	234143
	2 nd year	25.73	6140	157982
	3 rd year to 10 th year maintenance (8 years)	25.73	3180	654571
			Total	1046696
3	Soil conservation works	25.73	1,00,000	2573000
4	Removal of invasive species	13	32750	425750
			Total	2998750

A	Grand Total (1 to 4)				6198018
	GST on cost of fence posts = 25.73 Hac. Per hac. 50 Fence post = 1287 (Total fence post = 1287 x 358 per hac = 460567 @ 18% = 82902/-				0
B	Nursery cost	Area	No. of Plants/ha	Total Plants	Rate per plant
		25.73	1100	28303	23
C	Cost of trees for maintenance @ 70% of original planted plants			19812	23
	Total B&C				1106647
	Total (A+B+C)				7304666
D	Contingence 5% over the C.A. Scheme				365233
	Total (A+B+C+D)				7669899
E	Departmental charges @ 17.5%				1342232
	Total amount for 10 hac CA Scheme (A+B+C+D+E)				9012131

Technical Detail:-**Technical detail of compensatory afforestation is as under:-**

a.	General detail	The area shall be closed to improve the vegetation cover in the locality to enhance the moisture and water table.			Remarks
b.	Spa cement	3mx3m			
c.	Species	Broad leave.			
d.	Plantation method	Pit digging.			
e.	Soil & moisture conservation works;	Work shall be carried out for the same.			
f.	Protection	Fencing & people participation.			
g.	Proposed Monitoring Mechanism	As per guidelines.			
h.	Any other information	Nil.			
Note:-(i)		Rate of fence post has been charged Rs. 358/--rupees per fence post as fixed by Pr. CCF.H.P. vide letter No. Ft. State Campa/2010 /Norms/Volume 2 dated 21 th June 2021. The amount of CA has been calculated as per norms fixed as above.			
Area in Ha.		Fence Post per ha.	Total fence post is to be used at the time of planting	Cost of fence post	Total amount
25.73		50	1286.5	358	460567
Note:(ii)		GST on Cost of fence post @ 18%			82902


Deputy Conservator of Forests
Mandi Forest Division, Mandi (H.P.)

CHECK LIST SERIAL NUMBER :- 17

"SCHEME FOR COMPENSATORY AFFORESTATION"

Detail scheme for compensatory Afforestation to be carried out in lieu of forest area to be diverted for the C/O Thana Plaun (191 MW) in Distt. Mandi with in the jurisdiction of Suket West Division, Sundernagar in Mandi District.

1. Detail of degraded forest land/non forest land:-

District	Mandi	Village	Batwara
Tehsil	Sundernagar		
Name of Division	Suket	Range	Kangoo

Block/Compartment/Survey No. Khasra No. 292 of Muhai Batwara.

Area to be afforested : 8 ha.

2. Description of Area

- | | |
|---|----------------------|
| i. Whether the site selected for compensatory Afforestation is a land | Yes |
| ii. If the CA site is other than land bank, reasons be :- | No |
| iii. In case of non forest area identified for CA, then what is the distance of | Out side Forest area |
| iv. Soil type :- | Sandy loam, Shallow |
| v. Topography a. Hilly/Undulating/Plain :- | Hilly |
| b. Slope:- Steep/Medium/Gentle :- | Steep |
| vi. Whether the area is bearing any root stock of vegetation:- | Yes |

3. Plantation Model

Copy of the approved Compensatory Afforestation Scheme/Model showing component wise

Contd. 2

4. Schedule of Plantation Programme

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

Year	Area	Rate/h a.	Nursery cost	Total Amount-
0 th Year (New Plantation)	8.0000 ha	60150	24200	674800
1 st Year	8.0000 ha	6350	7260	108880
2 nd Year	8.0000 ha	4300	4840	73120
3 rd Year	8.0000 ha	2250	2420	37360
4 th Year	8.0000 ha	2250	2420	37360
5 th Year	8.0000 ha	2250	2420	37360
6 th Year	8.0000 ha	2250	2420	37360
7 th Year	8.0000 ha	2250	2420	37360
8 th Year	8.0000 ha	2250	2420	37360
9 th Year	8.0000 ha	2250	2420	37360
10 th Year	8.0000 ha	2250	2420	37360
Total C.A. Scheme				1155680

Departmental charges @ 17.5%

202244

Contingency charges @ 5%

57784

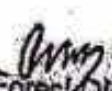
Total

1415708

2. Technical details

Technical details of Compensatory Afforestation Scheme are as follows :

- General Details : The area shall be closed to improve the vegetation cover in locality
- Spacement : 3X3 mtrs. Between pits & pits of size 45X45x45 cm & 30x30x30 cm size
- Species: Broad leave
- Plantation Method : Pit digging
- Soil and Moisture Conservation Works : Small scale engg.
- Protection : (Fencing, Watch man, People's Participation etc.)
- Proposed Monitoring , Mechanism : As per guidelines
- Any other information. : No.


Divisional Forest Officer
Sukel Forest Division
Sundernagar (H.P.) - 175018

CHECK LIST SERIAL NUMBER :- 17

"SCHEME FOR COMPENSATORY AFFORESTATION"

Detail scheme for compensatory Afforestation to be carried out in lieu of forest area to be diverted for the C/O Thana Plain (191 MW) in Distt. Mandi with in the jurisdiction of Suket Forest Division, Sundernagar in Mandi District.

1. Detail of degraded forest land/non forest land:-

District	Mandi	Village	Bhalana
Tehsil	Sundernagar		
Name of Division	Suket	Range	Jal Devi
Block/Compartment/Survey No. Khasra No. 174 & 291 of Muhal Bhalana			
Area to be afforested : 5 ha.			

2. Description of Area

- | | |
|---|----------------------|
| i. Whether the site selected for compensatory Afforestation is a land | Yes |
| ii. If the CA site is other than land bank, reasons be :- | No |
| iii. In case of non forest area identified for CA, then what is the distance of | Out side Forest area |
| iv. Soil type :- | Sandy loam, Shallow |
| v. Topography a. Hilly/Undulating/Plain :- | Hilly |
| b. Slope:- Steep/Medium/Gentle :- | Steep |
| vi. Whether the area is bearing any root stock of vegetation:- | Yes |

3. Plantation Model

Copy of the approved Compensatory Afforestation Scheme/Model showing component wise

Contd.....2.....

4. Schedule of Plantation Programme

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

Year	Area	Rate/li a.	Nursery cost	Total Amount
0 th Year (New Plantation)	5.0000 ha	60150	24200	421750
1 st Year	5.0000 ha	8350	7260	68050
2 nd Year	5.0000 ha	4300	4840	45700
3 rd Year	5.0000 ha	2250	2420	23350
4 th Year	5.0000 ha	2250	2420	23350
5 th Year	5.0000 ha	2250	2420	23350
6 th Year	5.0000 ha	2250	2420	23350
7 th Year	5.0000 ha	2250	2420	23350
8 th Year	5.0000 ha	2250	2420	23350
9 th Year	5.0000 ha	2250	2420	23350
10 th Year	5.0000 ha	2250	2420	23350
Total C.A. Scheme				722300

Departmental charges @ 17.5%

126403

Contingency charges @ 5%

36115

Total

884818

2. Technical details

Technical details of Compensatory Afforestation Scheme are as follows :

- General Details : The area shall be closed to improve the vegetation cover in locality
- Spacement : 3X3 mtrs. Between pits & pits of size 45X45x45 cm & 30x30x30 cm size
- Species : Broad leave
- Plantation Method : Pit digging
- Soil and Moisture Conservation Works : Small scale engg.
- Protection : (Fencing, Watch man, People's Participation etc.)
- Proposed Monitoring , Mechanism : As per guidelines
- Any other information. : No.

[Signature]
Divisional Forest Officer
Suket Forest Division
Sundernagar (H.P.) - 175018

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"SCHEME FOR COMPENSATORY AFFORESTATION"

Detail scheme for compensatory Afforestation to be carried out in lieu of forest area to be diverted for the C/O Thana Plain (191 MW) in Dist. Mandi with in the jurisdiction of Suket Forest Division, Sundernagar in Mandi District.

1. Detail of degraded forest land/non forest land:-

District	Mandi	Village	Fatehpur
Tehsil	Sundernagar		
Name of Division	Suket	Range	Jal Devi
Block/Compartment/Survey No.	Khasra No. 50 & 94 of Mutual Fatehpur		

Area to be afforested : 10 ha.

2. Description of Area

1. Whether the site selected for compensatory Afforestation is a land Yes
- ii. If the CA site is other than land bank, reasons be :- No
- iii. In case of non forest area identified for CA, then what is the distance of Out side Forest area Sandy loamy, Shallow
- iv. Soil type :- Hilly
- v. Topography a. Hilly/Undulating/Plain :- Steep
- b. Slope:- Steep/Medium/Gentle :- Yes
- vi. Whether the area is bearing any root stock of vegetation:-

3. Plantation Model

Copy of the approved Compensatory Afforestation Scheme/Model showing component wise

Contd. 2

4. Schedule of Plantation Programme

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

Year	Area	Rate/h a.	Nursery cost	Total Amount
0 th Year (New Plantation)	10.0000 ha	60150	24200	843500
1 st Year	10.0000 ha	6350	7260	136100
2 nd Year	10.0000 ha	4300	4840	91400
3 rd Year	10.0000 ha	2250	2420	46700
4 th Year	10.0000 ha	2250	2420	46700
5 th Year	10.0000 ha	2250	2420	46700
6 th Year	10.0000 ha	2250	2420	46700
7 th Year	10.0000 ha	2250	2420	46700
8 th Year	10.0000 ha	2250	2420	46700
9 th Year	10.0000 ha	2250	2420	46700
10 th Year	10.0000 ha	2250	2420	46700
Total C.A. Scheme				1444600

Departmental charges @ 17.5%

252805

Contingency charges @ 5%

72230

Total

1769635

2. Technical details

Technical details of Compensatory Afforestation Scheme are as follows :

- General Details : The area shall be closed to improve the vegetation cover in locality
- Spacing : 3X3 mtrs. Between pits & pits of size 45X45X45 cm & 30X30X30 cm size
- Species : Broad leave
- Plantation Method : Pit digging
- Soil and Moisture Conservation Works : Small scale engg.
- Protection : (Fencing, Watch man, People's Participation etc.)
- Proposed Monitoring, Mechanism : As per guidelines
- Any other information : No.

[Signature]
Divisional Forest Officer
Suket Forest Division
Sundarnagar (H.P.) - 175018

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"SCHEME FOR COMPENSATORY AFFORESTATION"

Detail scheme for compensatory Afforestation to be carried out in lieu of forest area to be diverted for the C/O Thana Plaun (191 MW) in Dist. Mandi with in the jurisdiction of Suket Forest Division, Sundernagar in Mandi District.

1. Detail of degraded forest land/non forest land:-

District	Mandi	Village	Gamohu
Tehsil	Sundernagar		
Name of Division	Suket	Range	Kangoo
Block/Compartment/Survey No. Khasra No. 550 of Muhal Gamohu			

Area to be afforested : 9 ha.

2. Description of Area

- i. Whether the site selected for compensatory Afforestation is a land Yes
- ii. If the CA site is other than land bank, reasons be :- No
- iii. In case of non forest area identified for CA, then what is the distance of Out side Forest area Sandy loam, Shallow
- iv. Soil type :- Hilly
- v. Topography a. Hilly/Undulating/Plain :- Steep
b. Slope:- Steep/Medium/Gentle :- Yes
- vi. Whether the area is bearing any root stock of vegetation:-

3. Plantation Model

Copy of the approved Compensatory Afforestation Scheme/Model showing component wise

Contd. 2

4. Schedule of Plantation Programme

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

Year	Area	Rate/h a.	Nursery cost	Total Amount
0 th Year (New Plantation)	9.0000 ha	60150	24200	759150
1 st Year	9.0000 ha	6350	7260	122490
2 nd Year	9.0000 ha	4300	4840	82260
3 rd Year	9.0000 ha	2250	2420	42030
4 th Year	9.0000 ha	2250	2420	42030
5 th Year	9.0000 ha	2250	2420	42030
6 th Year	9.0000 ha	2250	2420	42030
7 th Year	9.0000 ha	2250	2420	42030
8 th Year	9.0000 ha	2250	2420	42030
9 th Year	9.0000 ha	2250	2420	42030
10 th Year	9.0000 ha	2250	2420	42030
Total C.A. Scheme				1300140
Departmental charges @ 17.5%				227525
Contingency charges @ 5%				65007
Total				1592672

2. Technical details

Technical details of Compensatory Afforestation Scheme are as follows :

- General Details : The area shall be closed to improve the vegetation cover in locality
- Spacing : 3X3 mtrs. Between pits & pits of size 45X45x45 cm & 30x30x30 cm size
- Species : Broad leave
- Plantation Method : Pit digging
- Soil and Moisture Conservation Works : Small scale engg.
- Protection : (Fencing, Watch man, People's Participation etc.)
- Proposed Monitoring, Mechanism : As per guidelines
- Any other information : No.

Divisional Forest Officer
Suket Forest Division
Sundernagar (H.P.) - 175018

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"SCHEME FOR COMPENSATORY AFFORESTATION"

Detail scheme for compensatory Afforestation to be carried out in lieu of Forest area to be diverted for the C/O Thana Plaun (191 MW) in Distt. Mandi with in the jurisdiction of Suket Forest Division, Sundernagar in Mandi District.

1. Detail of degraded forest land/non forest land:-

District	Mandi	Village	Gamohu
Tehsil	Sundernagar		
Name of Division	Suket	Range	Kangoo

Block/Compartment/Survey No. Khasra No. 1040/992 of Muhal Gamohu

Area to be afforested : 7 ha.

2. Description of Area

- | | |
|---|----------------------|
| i. Whether the site selected for compensatory Afforestation is a land | Yes |
| ii. If the CA site is other than land bank, reasons be :- | No |
| iii. In case of non forest area identified for CA, then what is the distance of | Out side Forest area |
| iv. Soil type :- | Sandy loam, Shallow |
| v. Topography a. Hilly/Undulating/Plain :- | Hilly |
| b. Slope:- Steep/Medium/Gentle :- | Steep |
| vi. Whether the area is bearing any root stock of vegetation:- | Yes |

3. Plantation Model

Copy of the approved Compensatory Afforestation Scheme/Model showing component wise

Contd.....

4. Schedule of Plantation Programme

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

Year	Area	Rate/h a.	Nursery cost	Total Amount
0 th Year (New Plantation)	7.0000 ha	60150	24200	590450
1 st Year	7.0000 ha	6350	7260	95270
2 nd Year	7.0000 ha	4300	4840	63980
3 rd Year	7.0000 ha	2250	2420	32690
4 th Year	7.0000 ha	2250	2420	32690
5 th Year	7.0000 ha	2250	2420	32690
6 th Year	7.0000 ha	2250	2420	32690
7 th Year	7.0000 ha	2250	2420	32690
8 th Year	7.0000 ha	2250	2420	32690
9 th Year	7.0000 ha	2250	2420	32690
10 th Year	7.0000 ha	2250	2420	32690
Total C.A. Scheme				1011220

Departmental charges @ 17.5%

176964

Contingency charges @ 5%

50561

Total

1238745

2. Technical details

Technical details of Compensatory Afforestation Scheme are as follows :

- General Details : The area shall be closed to improve the vegetation cover in locality
- Spacement : 3X3 mtrs. Between pits & pits of size 45X45x45 cm & 30x30x30 cm size
- Species : Broad leave
- Plantation Method : Pit digging
- Soil and Moisture Conservation Works : Small scale engg.
- Protection : (Fencing, Watch man, People's Participation etc.)
- Proposed Monitoring Mechanism : As per guidelines
- Any other information. : No.

[Signature]
Divisional Forest Officer
Suket Forest Division
Sundernagar (H.P.) - 175018

Full Title of the Project: Diversion of 406.79 hect. Of forest land in favour of Thana Plann HEP (191MW), HPPCL within the jurisdiction of Joginder Nagar & Mandi Forest Divisions,

"SCHEME FOR COMPENSATORY AFFORESTATION"

Detailed scheme for Compensatory Afforestation for Khasra No. 25 in Muhal Jamnu of Tehsil Karsog, Distt. Mandi, HP. measuring 38.75 hectares to be carried -out in lieu of 409.78 hect. of forest area to be diverted for construction of Thana Plann HEP (191 MW) in favour of HPPCL

1) Detail of degraded forest land /non- forest land:-

District : Mandi, Village: Jamnu,
Tehsil: Karsog, District: Mandi, HP.
Name of Forest Division: Karsog, Range: Pangna
Block/ Compartment/ Survey No.: H43F3
Area to be afforested : 38.75 hect.

2) Description of Area

- I) Whether the site selected for Compensatory Afforestation is a land bank or not? No, the selected area is a Non- Forest Land.
- II) If the CA site is other than the land bank, reasons be given: Yes (Non-Forest Land)
- III) In case of non forest area identified for CA, then what is the distance of CA site from the adjoining forest boundary: Alongside Parwain PF
- IV) Soil type: Sandy loam.
- V) Topography:
- VI (a) Hilly/undulation/ Plain: Hilly
- VII(b) Slope Steep / Medium/ Gentle: Medium
- VI) Whether the area is bearing any root stock of vegetation, Bushes: Yes Bushes
- Present:

3) Plantation Model:-

Copy of the approved Compensatory Afforestation Scheme/ Model showing component-wise physical and financial break up to be enclosed.

- 4) Estimate for compensatory afforestation to be carried-out in lieu of area diverted under FCA, 1980 (For one hect. Area)
- 5) Fencing as per letter No. Ft. State CAMPA/2010/Norms/Vol.II dated 30.05.2018 of Pr. CCF(HoFF)HP.
- Cost per ha. (exclusive of cost of plants) = 63200/-
- Cost of plants (1100 Nos. Ls. 1100x13) = 14300/-
- Total Cost = 74450/-

6) Schedule of Plantation Programme:-

A (i) Details of year wise break up of requirements of funds is as under:

Year	Area in hac.	Rate/ha.	Total amount
New Plantation	38.75	74450	2884938
1st Year	38.75	6850	265438
2nd Year	38.75	4600	178250
3rd Year	38.75	2400	93000
4th Year	38.75	2400	93000
5th Year	38.75	2400	93000
6th Year	38.75	2400	93000
7th Year	38.75	2400	93000
8th Year	38.75	2400	93000
9th Year	38.75	2400	93000

10th Year	38.75	2400	93000
Total A (i)			4072626
A (ii)- cost of plants 98038 Nos.		13	1274494
Total (A)			5347120
B (i) Soil Conservation works	38.75	30000	1162500
ii) (a) Lantana Eradication 75%	38.75	23700	918375
(c) Maint. 1 st year	38.75	5200	201500
(d) Maint. 2 nd year	38.75	3200	124000
(e) Maint. 3 rd year	38.75	3200	124000
Total (B)			2530375
Total A+B			7877495
Contingency @ 5%			393875
Total			8271370
Departmental charges @ 17.5%			1378562
G.Total			9649932

- 7) Technical Details:- Technical details of Compensatory Afforestation Scheme are as follows:
- General Detail:- The plantation will be done through pit method as per plantation norms. The area will be protected by Barbed wire fencing and mixture of Conifer and B/L species will be planted. 1100 plants will be planted in all in 1.00 hac @ 1100 plants per hac. (Mixture of plant shrubs and grasses)
 - Spacement:- Pits of size 45x45x45 cm and 30x30x30 cm will be used for planting 60% naked root stock and 40% P/Bags stock.
 - Species:- Based on locality factor and demand of people.
 - Plantation Method:- Pit planting method.
 - Soil and moisture conservation works:- 25% of afforestation cost.
 - Protection (fencing, watch men, People's participation etc):- Area will be protected from grazing by erecting barbed wire fencing at all vulnerable places around the plantation.
 - Proposed Monitoring Mechanism:- By higher authority.
 - Any other information:- Nil

Date: 06-03-2019
Place: Karsog

Divisional Forest Officer,
Karsog Forest Division, HP.

Full Title of the Project: Diversion of 406.79 hect. Of forest land in favour of Thana Plaun HEP (191MW), HPPCL within the jurisdiction of Joginder Nagar & Mandi Forest Divisions, Distt. Mandi, HP.

Detailed scheme for Compensatory Afforestation for Khasra No. 546 in Muhal Jamnu of Tehsil Karsog, Distt. Mandi, HP. measuring 16.83 hectares to be carried out in lieu of 409.78 hect. of forest area to be diverted for construction of Thana Plaun HEP (191 MW) in favour of HPPCL

1) Detail of degraded forest land /non- forest land:-

District : Mandi, Village: Jamnu,
Tehsil: Karsog, District: Mandi, HP.
Name of Forest Division: Karsog, Range: Pangna
Block/ Compartment/Survey No.: H43F3
Area to be afforested : 16.83 hect.

2) Description of Area

- I) Whether the site selected for Compensatory Afforestation is a land bank or not: No, the selected area is a Non- Forest Land.
- II) If the CA site is other than the land bank, reasons be given: Yes (Non-Forest Land)
- III) In case of non forest area identified for CA, then what is the distance of CA site from the adjoining forest boundary: Alongside Parwain PF
- IV) Soil type: Sandy loam.
- V) Topography:
- VI(a) Hilly/undulation/ Plain: Hilly
- VII(b) Slope Steep / Medium/ Gentle: Medium
- VI) Whether the area is bearing any root stock of vegetation, Bushes: Yes Bushes Present.

3) Plantation Model:-

Copy of the approved Compensatory Afforestation Scheme/ Model showing component-wise physical and financial break up to be enclosed.

- 4) Estimate for compensatory afforestation to be carried out in lieu of area diverted under FCA, 1980 (For one hect. Area)
- 5) Fencing as per letter No. Ft. State CAMPA/2010/Norms/Vol.II dated 30.05.2018 of Pr. CCF(HoFF)HP.
- Cost per ha. (exclusive of cost of plants) = 63200/-
Cost of plants (1100 Nos. i.e. 1100x13) = 14300/-
Total Cost = 74450/-

6) Schedule of Plantation Programme:-

A (i) Details of year wise break up of requirements of funds is as under:

Year	Area in hac.	Rate/ha.	Total amount
New Plantation	16.83	74450	1252994
1st Year	16.83	6850	115286
2nd Year	16.83	4600	77418
3rd Year	16.83	2400	40392
4th Year	16.83	2400	40392
5th Year	16.83	2400	40392
6th Year	16.83	2400	40392
7th Year	16.83	2400	40392
8th Year	16.83	2400	40392
9th Year	16.83	2400	40392

10th Year	16.83	2400	40392
Total A (i)			1768834
A (ii)- cost of plants 42580 Nos.		13	553540
Total (A)			2322374
B (i) Soil Conservation works	16.83	30000	504900
ii) (a) Lantana Eradication 75%	16.83	23700	398871
(b) Maint. 1 st year	16.83	5200	87516
(c) Maint. 2 nd year	16.83	3200	53856
(d) Maint. 3 rd year	16.83	3200	53856
Total (B)			1098999
Total A+B			3421373
Contingency @ 5%			171069
Total			3592442
Departmental charges @ 17.5%			598740
G.Total			4191182

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

General Detail:- The plantation will be done through pit method as per plantation norms. The area will be protected by Barbed wire fencing and mixture of Conifer and B/L species will be planted. 1100 plants will be planted in all in 1.00 hac @ 1100 plants per hac. (Mixture of plant shrubs and grasses)

Spacing:- Pits of size 45x45x45 cm and 30x30x30 cm will be used for planting 60% naked root stock and 40% P/Bags stock.

Species:- Based on locality factor and demand of people.

Plantation Method:- Pit planting method.

Soil and moisture conservation works:- 25% of afforestation cost.

Protection (fencing, watch men, People's participation etc):- Area will be protected from grazing by erecting barbed wire fencing at all vulnerable places around the plantation.

Proposed Monitoring Mechanism:- By higher authority.

Any other information:- Nil

Date: 06-03-2019

Place: Karsog

Divisional Forest Officer,
Karsog Forest Division, HP.

HEP (191MW), HPPCL within the jurisdiction of Joginder Nagar & Mandi Forest Divisions, Distt. Mandi, HP.

"SCHEME FOR COMPENSATORY AFFORESTATION"

Detailed scheme for Compensatory Afforestation for Khasra No. 554 in Muhl Jamnu of Tehsil Karsog, Distt. Mandi, HP, measuring 10.28 hectares to be carried out in lieu of 409.78 ha. of forest area to be diverted for construction of Thana Plain HEP (191 MW) in favour of HPPCL.

1) Detail of degraded forest land / non-forest land:-

District: Mandi,

Village: Jamnu,

Tehsil: Karsog,

District: Mandi, HP,

Name of Forest Division: Karsog,

Range: Pangna

Block/ Compartment/Survey No.: H43F3

Area to be afforested: 10.28 ha.

2) Description of Area

I) Whether the site selected for Compensatory Afforestation is a land bank or not: No, the selected area is a Non-Forest Land.

II) If the CA site is other than the land bank, reasons be given: Yes (Non-Forest Land)

III) In case of non forest area identified for CA, then what is the distance of CA site from the adjoining forest boundary: Alongside Parvati PP.

IV) Soil type: Sandy loam.

V) Topography:

VI (a) Hilly/undulation/ Plain: Hilly

(b) Slope Steep / Medium/ Gentle: Medium

VII) Whether the area is bearing any root stock of vegetation, Bushes: Yes Bushes Present.

3) Plantation Model:-

Copy of the approved Compensatory Afforestation Scheme/ Model showing component-wise physical and financial break up to be enclosed.

4) Estimate for compensatory afforestation to be carried out in lieu of area diverted under FCA, 1980 (For one hect. Area)

5) Fencing as per letter No. Ft. State CAMPA/2010/Norms/Vol.II dated 30.05.2018 of Pr. CCF(HoFF)HP.

Cost per ha. (exclusive of cost of plants) = 63200/-

Cost of plants (1100 Nos. i.e. 1100x13) = 14300/-

Total Cost = 74450/-

6) Schedule of Plantation Programme:-

A (i) Details of year wise break up of requirements of funds is as under:

Year	Area in ha.	Rate/ha.	Total amount
New Plantation	10.28	74450	765346
1st Year	10.28	6850	70418
2nd Year	10.28	4500	47288
3rd Year	10.28	2400	24672
4th Year	10.28	2400	24672
5th Year	10.28	2400	24672
6th Year	10.28	2400	24672
7th Year	10.28	2400	24672
8th Year	10.28	2400	24672
9th Year	10.28	2400	24672

10th Year	10.28	2400	24672
Total A (I)			1080428
A (ii)- cost of plants 26008 Nos.		13	338104
Total (A)			1418532
B (i) Soil Conservation works	10.28	30000	308400
ii) (a) Lantana Eradication 75%	10.28	23700	243636
(b) Maint. 1 st year	10.28	5200	53456
(c) Maint. 2 nd year	10.28	3200	32896
(d) Maint. 3 rd year	10.28	3200	32896
Total (B)			671284
Total A+B			2089816
Contingency @ 5%			104491
Total			2194307
Departmental charges @ 17.5%			365718
G.Total			2560025

7) **Technical Details:-** Technical details of Compensatory Afforestation Scheme are as follows:

i) **General Detail:-** The plantation will be done through pit method as per plantation norms. The area will be protected by Barbed wire fencing and mixture of Conifer and B/L species will be planted. 1100 plants will be planted in all in 1.00 hac @ 1100 plants per hac. (Mixture of plant shrubs and grasses)

ii) **Spacement:-** Pits of size 45x45x45 cm and 30x30x30 cm will be used for planting 60% naked root stock and 40% P/Bags stock.

iii) **Species:-** Based on locality factor and demand of people.

iv) **Plantation Method:-** Pit planting method.

v) **Soil and moisture conservation works:-** 25% of afforestation cost.

vi) **Protection (fencing, watch men, People's participation etc):-** Area will be protected from grazing by erecting barbed wire fencing at all vulnerable places around the plantation.

vii) **Proposed Monitoring Mechanism:-** By higher authority.

viii) **Any other information :-** Nil

Date: 06-02-2019

Place: Karsog

dt

Divisional Forest Officer,
Karsog Forest Division, HP.

Full Title of the Project: Diversion of 406.79 ha. Of forest land in favour of Thana Plain HEP (191MW), HPPCL within the jurisdiction of Joginder Nagar & Mandi Forest Divisions, Distt. Mandi, HP.

SCHEME FOR COMPENSATORY AFFORESTATION

Detailed scheme for Compensatory Afforestation for Khasra No. 552 in Muhal Jamna of Tehsil Karsog, Distt. Mandi, HP. measuring 23.87 hectares to be carried out in lieu of 409.78 ha. of forest area to be diverted for construction of Thana Plain HEP (191 MW) in favour of HPPCL.

1) Detail of degraded forest land /non- forest land:-

District : Mandi, Village: Jamna,
Tehsil: Karsog, District: Mandi, HP.
Name of Forest Division: Karsog, Range: Pangna
Block/ Compartment/ Survey No.: H43F3
Area to be afforested : 23.87 ha.

2) Description of Area

- I) Whether the site selected for Compensatory Afforestation is a land bank or not: No, the selected area is a Non- Forest Land.
- II) If the CA site is other than the land bank, reasons be given: Yes (Non-Forest Land)
- III) In case of non forest area identified for CA, then what is the distance of CA site from the adjoining forest boundary: Alongside Parwain PF
- IV) Soil type: Sandy loam.
- V) Topography:
- VI (a) Hilly/undulation/ Plain: Hilly
- (b) Slope Steep / Medium/ Gentle: Medium
- VII) Whether the area is bearing any root stock of vegetation, Bushes: Yes Bushes Present.

3) Plantation Model:-

Copy of the approved Compensatory Afforestation Scheme/ Model showing component-wise physical and financial break up to be enclosed.

4) Estimate for compensatory afforestation to be carried-out in lieu of area diverted under FCA, 1980 (For one hect. Area)

5) Fencing as per letter No. FL State CAMPA/2010/Norms/Vol.II dated 30.05.2018 of Pr. CCF(HoFF)HP.

Cost per ha. (exclusive of cost of plants) = 63200/-
Cost of plants (1100 Nos. i.e. 1100x13) = 14300/-
Total Cost = 74450/-

6) Schedule of Plantation Programme:-

A (i) Details of year wise break up of requirements of funds is as under:

Year	Area in ha.	Rate/ha.	Total amount
New Plantation	23.87	74450	1777122
1st Year	23.87	6850	163510
2nd Year	23.87	4600	109802
3rd Year	23.87	2400	57288
4th Year	23.87	2400	57288
5th Year	23.87	2400	57288
6th Year	23.87	2400	57288
7th Year	23.87	2400	57288
8th Year	23.87	2400	57288
9th Year	23.87	2400	57288

10th Year	23.87	2400	57288
Total A (I)			2508738
A (II)- cost of plants 60391 Nos.		13	785083
Total (A)			3293821
B (I) Soil Conservation works	23.87	30000	716100
II) (a) Lantana Eradication 75%	23.87	23700	565719
(b) Maint. 1 st year	23.87	5200	124124
(c) Maint. 2 nd year	23.87	3200	76384
(d) Maint. 3 rd year	23.87	3200	76384
Total (B)			1558711
Total A+B			4852532
Contingency @ 5%			242627
Total			5095159
Departmental charges @ 17.5%			849193
G.Total			5944352

- 7) Technical Details:- Technical details of Compensatory Afforestation Scheme are as follows:
- i) General Detail:- The plantation will be done through pit method as per plantation norms. The area will be protected by Barbed wire fencing and mixture of Conifer and B/L species will be planted. 1100 plants will be planted in all in 1.00 hac@1100 plants per hac. (Mixture of plant shrubs and grasses)
- ii) Spacement:- Pits of size 45x45x45 cm and 30x30x30 cm will be used for planting 60% naked root stock and 40% P/Bags stock.
- iii) Species:- Based on locality factor and demand of people.
- iv) Plantation Method:- Pit planting method.
- v) Soil and moisture conservation works:- 25% of afforestation cost.
- vi) Protection (fencing, watch men, People's participation etc):- Area will be protected from grazing by erecting barbed wire fencing at all vulnerable places around the plantation.
- vii) Proposed Monitoring Mechanism:- By higher authority.
- viii) Any other information :- Nil

Date: 06-02-2019

Place: Karsog

Divisional Forest Officer,
Karsog Forest Division, HP.

Full Title of the Project: Diversion of 406.79 hect. Of forest land in favour of Thana Plain HEP (191MW), HPPCL within the jurisdiction of Joginder Nagar & Mandi Forest Divisions, Distt. Mandi, HP.

"SCHEME FOR COMPENSATORY AFFORESTATION"

Detailed scheme for Compensatory Afforestation for Khasra No. 548 in Muhal Jamnu of Tehsil Karsog, Distt. Mandi, HP. measuring 28.07 hectares to be carried out in lieu of 409.78 hect. of forest area to be diverted for construction of Thana Plain HEP (191 MW) in favour of HPPCL.

1) Detail of degraded forest land / non-forest land:-

District: Mandi, Village: Jamnu,
Tehsil: Karsog, District: Mandi, HP.
Name of Forest Division: Karsog, Range: Pangna
Block/ Compartment/ Survey No.: H43F3
Area to be afforested: 28.07 hect.

2) Description of Area.

- i) Whether the site selected for Compensatory Afforestation is a land bank or not: No, the selected area is a Non-Forest Land.
- ii) If the CA site is other than the land bank, reasons be given: Yes (Non-Forest Land)
- iii) In case of non forest area identified for CA, then what is the distance of CA site from the adjoining forest boundary: Alongside Parwala PF
- iv) Soil type: Sandy loam.
- v) Topography:
- vi) (a) Hilly/undulation/ Plain: Hilly
- (b) Slope Steep / Medium/ Gentle: Medium
- vii) Whether the area is bearing any root stock of vegetation, Bushes: Yes Bushes Present.

3) Plantation Model:-

Copy of the approved Compensatory Afforestation Scheme/ Model showing component-wise physical and financial break up to be enclosed.

4) Estimate for compensatory afforestation to be carried out in lieu of area diverted under FCA, 1980 (For one hect. Area)

Fencing as per letter No. FL State CAMPA/2010/Norms/Vol.II dated 30.05.2018 of Pr.

CCF(HoFF)HP.

Cost per ha. (exclusive of cost of plants) = 63200/-

Cost of plants (1100 Nos. i.e. 1100x13) = 14300/-

Total Cost = 74450/-

6) Schedule of Plantation Programme:-

A (i) Details of year wise break up of requirements of funds is as under:

Year	Area in hac.	Rate/ha.	Total amount
New Plantation	28.07	74450	2089812
1st Year	28.07	6850	192280
2nd Year	28.07	4600	129122
3rd Year	28.07	2400	67368
4th Year	28.07	2400	67368
5th Year	28.07	2400	67368
6th Year	28.07	2400	67368
7th Year	28.07	2400	67368
8th Year	28.07	2400	67368
9th Year	28.07	2400	67368

10th Year	28.07	2400	67368
Total A (i)			2950158
A (ii)- cost of plants 71017 Nos.		13	923221
Total (A)			3873379
B (i) Soil Conservation works	28.07	30000	842100
B (ii) (a) Lantana Eradication 75%	28.07	23700	665259
(b) Maint. 1 st year	28.07	5200	145954
(c) Maint. 2 nd year	28.07	3200	89824
(d) Maint. 3 rd year	28.07	3200	89824
Total (B)			1832971
Total A+B			5706350
Contingency @ 5%			285318
Total			5991668
Departmental charges @ 17.5%			998611
G.Total			6990279

- 7) **Technical Details:-** Technical details of Compensatory Afforestation Scheme are as follows:
- General Detail:-** The plantation will be done through pit method as per plantation norms. The area will be protected by Barbed wire fencing and mixture of Conifer and B/L species will be planted. 1100 plants will be planted in all in 1.00 hac @ 1100 plants per hac. (Mixture of plant shrubs and grasses)
 - Spacement:-** Pits of size 45x45x45 cm and 30x30x30 cm will be used for planting 60% naked root stock and 40% P/Bags stock.
 - Species:-** Based on locality factor and demand of people.
 - Plantation Method:-** Pit planting method.
 - Soil and moisture conservation works:-** 25% of afforestation cost.
 - Protection (fencing, watch men, People's participation etc):-** Area will be protected from grazing by erecting barbed wire fencing at all vulnerable places around the plantation.
 - Proposed Monitoring Mechanism:-** By higher authority.
 - Any other information :-** Nil

Date: 06-03-2019

Place: Karsog

Divisional Forest Officer,
Karsog Forest Division, HP.

CHECK LIST SERIAL NUMBER :- 17

"SCHEME FOR COMPENSATORY AFFORESTATION"

Detail scheme for compensatory Afforestation to be carried out in lieu of forest area to be diverted for the C/O Thana Plain (191 MW) in Dist. Mandi with in the jurisdiction of Suket Forest Division, Sundernagar in Mandi District.

1. Detail of degraded forest land/non forest land:-

District	Mandi	Village	Kanokher
Tehsil	Sundernagar		
Name of Division	Suket	Range	Kangoo
Block/Compartment/Survey No.	Khasra No. 882 of Mihal Kanokher		
Area to be afforested	6 ha.		

2. Description of Area

- i. Whether the site selected for compensatory Afforestation is a land

Yes	
No	
- ii. If the CA site is other than land bank, reasons be :-
- iii. In case of non forest area identified for CA, then what is the distance of Out side Forest area

Sandy loam, Shallow	
Hilly	
Steep	
Yes	
- iv. Soil type :-
- v. Topography a. Hilly/Undulating/Plain :-
- b. Slope: Steep/Medium/Gentle :-
- vi. Whether the area is bearing any root stock of vegetation:-

3. Plantation Model

Copy of the approved Compensatory Afforestation Scheme/Model showing component wise

Contd. 2

4. Schedule of Plantation Programme

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

Year	Area	Rate/h a.	Nursery cost	Total Amount
0 th Year (New Plantation)	6.0000 ha	60150	24200	506100
1 st Year	6.0000 ha	6350	7260	81660
2 nd Year	6.0000 ha	4300	4840	54840
3 rd Year	6.0000 ha	2250	2420	28020
4 th Year	6.0000 ha	2250	2420	28020
5 th Year	6.0000 ha	2250	2420	28020
6 th Year	6.0000 ha	2250	2420	28020
7 th Year	6.0000 ha	2250	2420	28020
8 th Year	6.0000 ha	2250	2420	28020
9 th Year	6.0000 ha	2250	2420	28020
10 th Year	6.0000 ha	2250	2420	28020
Total C.A. Scheme				866760
Departmental charges @ 17.5%				151683
Contingency charges @ 5%				43338

Total 1061781

2. Technical details

Technical details of Compensatory Afforestation Scheme are as follows :

- General Details : The area shall be closed to improve the vegetation cover in locality
- Spacing : 3X3 mtrs. Between pits & pits of size 45X45x45 cm & 30x30x30 cm size
- Species : Broad leave
- Plantation Method : Pit digging.
- Soil and Moisture Conservation Works : Small scale engg.
- Protection : (Fencing, Watch-man, People's Participation etc.)
- Proposed Monitoring, Mechanism : As per guidelines
- Any other information : No.

Divisional Forest Officer
Suket Forest Division
Sundernagar (H.P.) - 175018

CHECK LIST SERIAL NUMBER :- 17

"SCHEME FOR COMPENSATORY AFFORESTATION"

Detail scheme for compensatory Afforestation to be carried out in lieu of forest area to be diverted for the C/O Thana Plain (191 MW) in Dist. Mandi with in the jurisdiction of Suket Forest Division, Sundernagar in Mandi District.

1. Detail of degraded forest land/non forest land:-

District	Mandi	Village	Koon
Tehsil	Sundernagar		
Name of Division	Suket	Range	Kangoo
Block/Compartment/Survey No. Kharsa No. 318 of Mihal Koon			
Area to be afforested : 5 ha.			

2. Description of Area

- Whether the site selected for compensatory Afforestation is a land

Yes	No
-----	----
- If the CA site is other than land bank, reasons be :-
- In case of non forest area identified for CA, then what is the distance of Out side forest area
- Soil type :-

Sandy loam, Shallow

- Topography a. Hilly/Undulating/Plain :-

Hilly

 b. Slope:- Steep/Medium/Gentle:-

Steep

- Whether the area is bearing any root stock of vegetation:-

Yes

3. Plantation Model

Copy of the approved Compensatory Afforestation Scheme/Model showing component wise

Contd - 2

4. Schedule of Plantation Programme

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

Year	Area	Rate/h d.	Nursery cost	Total Amount
0 th Year (New Plantation)	5.0000 ha	60150	24200	421750
1 st Year	5.0000 ha	6350	7260	68050
2 nd Year	5.0000 ha	4300	4840	45700
3 rd Year	5.0000 ha	2250	2420	23350
4 th Year	5.0000 ha	2250	2420	23350
5 th Year	5.0000 ha	2250	2420	23350
6 th Year	5.0000 ha	2250	2420	23350
7 th Year	5.0000 ha	2250	2420	23350
8 th Year	5.0000 ha	2250	2420	23350
9 th Year	5.0000 ha	2250	2420	23350
10 th Year	5.0000 ha	2250	2420	23350
Total C.A. Scheme				722300
Departmental charges @ 17.5%				126403
Contingency charges @ 5%				36115
Total				884818

2. Technical details

Technical details of Compensatory Afforestation Scheme are as follows :

- General Details : The area shall be closed to improve the vegetation cover in locality
- Spacement : 3X3 mtrs. Between pits & pits of size 45X45x45 cm & 30x30x30 cm size
- Species : Broad leave
- Plantation Method : Pit digging
- Soil and Moisture Conservation Works : Small scale engg.
- Protection : (Fencing, Watch man, People's Participation etc.)
- Proposed Monitoring Mechanism : As per guidelines
- Any other information : No.

[Signature]
Divisional Forest Officer
Suket Forest Division
Sundernagar (H.P.) - 175018

Full Title of the Project: Diversion of 406.79 hect. Of forest land in favour of Thana Plaun HEP (191MW), HPPCL within the jurisdiction of Joginder Nagar & Mandi Forest Divisions, Distt. Mandi, HP.

"COMPENSATORY AFFORESTATION"

Detailed scheme for Compensatory Afforestation for Khasra No. 373 in Muhal Kot of Tehsil Karsog, Distt. Mandi, HP. measuring 11.73 hectares to be carried-out in lieu of 406.79 hect. of forest area to be diverted for construction of Thana Plaun HEP (191 MW) in favour of HPPCL

1) Detail of degraded forest land /non- forest land:-

District : Mandi,

Tehsil: Karsog,

Name of Forest Division: Karsog,

Block/ Compartment/Survey No.: H43F3

Area to be afforested : 11.73 hect.

Village: Kot,

District: Mandi, HP.

Range: Pangna

2) Description of Area

I) Whether the site selected for Compensatory Afforestation is a land bank or not: No, the selected area is a Non- Forest Land.

II) If the CA site is other than the land bank, reasons be given: Yes (Non-Forest Land)

III) In case of non forest area identified for CA, then what is the distance of CA site from the adjoining forest boundary: Alongside Nando PF

IV) Soil type: Sandy loam.

V) Topography:

VI (a) Hilly/undulation/ Plain: Hilly

(b) Slope Steep / Medium/ Gentle: Medium

VII) Whether the area is bearing any root stock of vegetation, Bushes: Yes Bushes Present.

3) Plantation Model:-

Copy of the approved Compensatory Afforestation Scheme/ Model showing component-wise physical and financial break up to be enclosed.

4) Estimate for compensatory afforestation to be carried-out in lieu of area diverted under FCA, 1980 (For one hect. Area)

5) Fencing as per letter No. Ft. State CAMPA/2010/Norms/Vol.II dated 30.05.2018 of Pr. CCF(HoFF)HP.

Cost per ha. (exclusive of cost of plants) = 63200/-

Cost of plants (1100 Nos. i.e. 1100x13) = 14300/-

Total Cost = 77500/-

6) Schedule of Plantation Programme:-

A (i) Details of year wise break up of requirements of funds is as under:

Year	Area in hac.	Rate/ha.	Total amount
New Plantation	11.73	77500	909075
1st Year	11.73	6850	74486
2nd Year	11.73	4600	50439
3rd Year	11.73	2400	26393
4th Year	11.73	2400	26393
5th Year	11.73	2400	26393
6th Year	11.73	2400	26393
7th Year	11.73	2400	26393
8th Year	11.73	2400	26393
9th Year	11.73	2400	26393

10th Year	11.73	2400	26393
Total A (i)			1245144
A (ii)- cost of plants 16774 Nos.		13	218062
Total (A)			1463206
B(i) Soil Conservation works	11.73	30000	351900
ii) (a) Lantana Eradication 25%	11.73	11750	137828
(b) Maint. 1 st year	11.73	3150	36950
(c) Maint. 2 nd year	11.73	1250	14663
(d) Maint. 3 rd year	11.73	1250	14663
Total (B)			556004
Total A+B			2019210
Contingency @ 5%			100961
Total			2120171
Departmental charges @ 17.5%			371030
G.Total			2491201

7) **Technical Details:-** Technical details of Compensatory Afforestation Scheme are as follows:

- i) **General Detail:-** The plantation will be done through pit method as per plantation norms The area will be protected by Barbad wire fencing and mixture of Conifer and B/L species will be planted. 1100 plants will be planted in all in 1.00 hac@1100 plants per hac. (Mixture of plant shrubs and grasses)
- ii) **Spacement:-** Pits of size 45x45x45 cm and 30x30x30 cm will be used for planting 60% naked root stock and 40% P/Bags stock.
- iii) **Species:-** Based on locality factor and demand of people.
- iv) **Plantation Method:-** Pit planting method.
- v) **Soil and moisture conservation works:-** 25% of afforestation cost.
- vi) **Protection (fencing, watch men, People's participation etc):-** Area will be protected from grazing by erecting barbed wire fencing at all vulnerable places around the plantation.
- vii) **Proposed Monitoring Mechanism:-** By higher authority.
- viii) **Any other information :-** Nil

Date:

Place: Karsog

✓
Divisional Forest Officer,
Karsog Forest Division, HP.

CHECK LIST SERIAL NUMBER :- 17

"SCHEME FOR COMPENSATORY AFFORESTATION"

Detail scheme for compensatory Afforestation to be carried out in lieu of forest area to be diverted for the C/O Thana Plaun (191 MW) in Dist. Mandi with in the jurisdiction of Suket Forest Division, Sundernagar in Mandi District.

1. Detail of degraded forest land/non forest land:-

District	Mandi	Village	Kunalla
Tehsil	Sundernagar		
Name of Division	Suket	Range	Kangoo

Block/Compartment/Survey No. Khasra No. 434 of Mihal Kunalla

Area to be afforested :- 6 ha.

2. Description of Area

- Whether the site selected for compensatory Afforestation is a land
- If the CA site is other than land bank, reasons be :-
- In case of non forest area identified for CA, then what is the distance of Out side Forest area
- Soil type :-
- Topography a. Hilly/Undulating/Plain :-
b. Slope:- Steep/Medium/Gentle :-
- Whether the area is bearing any root stock of vegetation:-

Yes
No

Sandy loam, Shallow

Hilly

Steep

Yes

3. Plantation Model

Copy of the approved Compensatory Afforestation Scheme/Model showing component wise

4. Schedule of Plantation Programme

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

Year	Area	Rate/h a.	Nursery cost	Total Amount
0 th Year (New Plantation)	6.0000 ha	60150	24200	506100
1 st Year	6.0000 ha	6350	7260	81660
2 nd Year	6.0000 ha	4300	4840	54840
3 rd Year	6.0000 ha	2250	2420	28020
4 th Year	6.0000 ha	2250	2420	28020
5 th Year	6.0000 ha	2250	2420	28020
6 th Year	6.0000 ha	2250	2420	28020
7 th Year	6.0000 ha	2250	2420	28020
8 th Year	6.0000 ha	2250	2420	28020
9 th Year	6.0000 ha	2250	2420	28020
10 th Year	6.0000 ha	2250	2420	28020
Total C.A. Scheme				866760
Departmental charges @ 17.5%				151683
Contingency charges @ 5%				43338

Total 1061781

2. Technical details

Technical details of Compensatory Afforestation Scheme are as follows :

- General Details : The area shall be closed to improve the vegetation cover in locality
- Spacement : 3X3 mtrs. Between pits & pits of size 45X45x45 cm & 30x30x30 cm size
- Species : Broad leave
- Plantation Method : Pit digging
- Soil and Moisture Conservation Works : Small scale engg.
- Protection : (Fencing, Watch man, People's Participation etc.)
- Proposed Monitoring, Mechanism : As per guidelines
- Any other information : No.

Divisional Forest Officer
Suket Forest Division
Sundemagar (H.P.) - 175018

Full Title of the Project: Diversion of 406.79 hect. Of forest land in favour of Thana Plaun

"SCHEME FOR COMPENSATORY AFFORESTATION"

Detailed scheme for Compensatory Afforestation for Khasra No. 2 in Mihal Sawindhar of Tehsil Karsog, Distt. Mandi, HP. measuring 16.10 hectares to be carried -out in lieu of 406.79 hect. of forest area to be diverted for construction of Thana Plaun HEP (191 MW) in favour of HPPCL.

1) Detail of degraded forest land /non- forest land:-

District : Mandi,

Tehsil: Karsog,

Name of Forest Division:Karsog,

Block/ Compartment/Survey No.: H43F3

Area to be afforested : 16.10 hect.

Village: Sawindhar,

District: Mandi, HP.

Range: Pangna

2) Description of Area

I) Whether the site selected for Compensatory Afforestation is a land bank or not: No, the selected area is a Non- Forest Land.

II) If the CA site is other than the land bank, reasons be given: Yes (Non-Forest Land)

III) In case of non forest area identified for CA, then what is the distance of CA site from the adjoining forest boundary: Alongside Kidiya PF

IV) Soil type: Sandy loam.

V) Topography:

VI (a) Hilly/undulation/ Plain: Hilly

(b) Slope Steep / Medium/ Gentle: Medium

VII) Whether the area is bearing any root stock of vegetation, Bushes: Yes Bushes Present.

3) Plantation Model:-

Copy of the approved Compensatory Afforestation Scheme/ Model showing component-wise physical and financial break up to be enclosed.

4) Estimate for compensatory afforestation to be carried-out in lieu of area diverted under FCA, 1980 (For one hect. Area)

5) Fencing as per letter No. Ft. State CAMPA/2010/Norms/Vol.II dated 30.05.2018 of Pr. CCF(HoFF)HP.

Cost per ha. (exclusive of cost of plants) = 63200/-

Cost of plants (1100 Nos. i.e. 1100x13) = 14300/-

Total Cost = 77500/-

6) Schedule of Plantation Programme:-

A (i) Details of year wise break up of requirements of funds is as under:

Year	Area in hac.	Rate/ha.	Total amount
New Plantation	16.10	77500	1247750
1st Year	16.10	6850	102235
2nd Year	16.10	4600	69230
3rd Year	16.10	2400	36225
4th Year	16.10	2400	36225
5th Year	16.10	2400	36225
6th Year	16.10	2400	36225
7th Year	16.10	2400	36225
8th Year	16.10	2400	36225
9th Year	16.10	2400	36225

10th Year	16.10	2400	36225
Total A (I)			1709015
A (ii) - cost of plants 23023 Nos.		13	299299
Total (A)			2008314
B (i) Soil Conservation works	16.10	30000	483000
ii) (a) Lantana Eradication 25%	16.10	11750	189175
(b) Maint. 1 st year	16.10	3150	50715
(c) Maint. 2 nd year	16.10	1250	20125
(d) Maint. 3 rd year	16.10	1250	20125
Total (B)			763140
Total A+B			2771454
Contingency @ 5%			138573
Total			2910027
Departmental charges @ 17.5%			509255
G.Total			3419282

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

- i) General Detail:- The plantation will be done through pit method as per plantation norms. The area will be protected by Barbed wire fencing and mixture of Conifer and B/L species will be planted. 1100 plants will be planted in all in 1.00 hac @ 1100 plants per hac. (Mixture of plant shrubs and grasses)
- ii) Spacement:- Pits of size 45x45x45 cm and 30x30x30 cm will be used for planting 60% naked root stock and 40% P/Bags stock.
- Species:- Based on locality factor and demand of people.
- iv) Plantation Method:- Pit planting method.
- v) Soil and moisture conservation works:- 25% of afforestation cost.
- vi) Protection (fencing, watch men, People's participation etc):- Area will be protected from grazing by erecting barbed wire fencing at all vulnerable places around the plantation.
- vii) Proposed Monitoring Mechanism:- By higher authority.
- viii) Any other information :- Nil

Date:

Place: Karsog

Divisional Forest Officer,
Karsog Forest Division, HP.

Full Title of the Project: Diversion of 406.79 hect. Of forest land in favour of Thana Plaun HEP (191MW), HPPCL within the jurisdiction of Joginder Nagar & Mandi Forest Divisions,
"SCHEME FOR COMPENSATORY AFFORESTATION"

Detailed scheme for Compensatory Afforestation for Khasra No. 612 in Muhl Sawindhar of Tehsil Karsog, Distt. Mandi, HP. measuring 32.44 hectares to be carried out in lieu of 406.79 hect. of forest area to be diverted for construction of Thana Plaun HEP (191 MW) in favour of HPPCL.

1) Detail of degraded forest land /non- forest land:-

District : Mandi,

Tehsil: Karsog,

Name of Forest Division: Karsog,

Block/ Compartment/Survey No.: H43F3.

Area to be afforested : 32.44 hect.

Village: Sawindhar,

District: Mandi, HP.

Range: Pangna

2) Description of Area

I) Whether the site selected for Compensatory Afforestation is a land bank or not: No, the selected area is a Non- Forest Land.

II) If the CA site is other than the land bank, reasons be given: Yes (Non-Forest Land)

III) In case of non forest area identified for CA, then what is the distance of CA site from the adjoining forest boundary: Alongside Kidliya PF

IV) Soil type: Sandy loam.

V) Topography:

VI (a) Hilly/undulation/ Plain: Hilly

(b) Slope Steep / Medium/ Gentle: Medium

VII) Whether the area is bearing any root stock of vegetation, Bushes: Yes Bushes Present.

3) Plantation Model:-

Copy of the approved Compensatory Afforestation Scheme/ Model showing component-wise physical and financial break up to be enclosed.

4) Estimate for compensatory afforestation to be carried-out in lieu of area diverted under FCA, 1980 (For one hect. Area)

5) Fencing as per letter No. Ft. State CAMPA/2010/Norms/Vol.II dated 30.05.2018 of Pr. CCE(HoFF)HP.

Cost per ha. (exclusive of cost of plants) = 63200/-

Cost of plants (1100 Nos. i.e. 1100x13) = 14300/-

Total Cost = 77500/-

6) Schedule of Plantation Programmer-

A (i) Details of year wise break up of requirements of funds is as under:

Year	Area in hac.	Rate/ha.	Total amount
New Plantation	32.44	77500	2514100
1st Year	32.44	6850	205994
2nd Year	32.44	4600	139492
3rd Year	32.44	2400	72990
4th Year	32.44	2400	72990
5th Year	32.44	2400	72990
6th Year	32.44	2400	72990
7th Year	32.44	2400	72990
8th Year	32.44	2400	72990
9th Year	32.44	2400	72990

10th Year	32.44	2400	72990
Total A (i)			3443506
A (ii)- cost of plants 46389 Nos.		13	603057
Total (A)			4046563
B (i) Soil Conservation works	32.44	30000	973200
ii) (a) Lantana Eradication 25%	32.44	11750	381170
(b) Maint. 1 st year	32.44	3150	102186
(c) Maint. 2 nd year	32.44	1250	40550
(d) Maint. 3 rd year	32.44	1250	40550
Total (B)			1537656
Total A+B			5584219
Contingency @ 5%			279211
Total			5863430
Departmental charges @ 17.5%			1026100
G.Total			6889530

7) **Technical Details:-** Technical details of Compensatory Afforestation Scheme are as follows:

- i) **General Detail:-** The plantation will be done through pit method as per plantation norms. The area will be protected by Barbed wire fencing and mixture of Conifer and B/L species will be planted. 1100 plants will be planted in all in 1.00 hac@1100 plants per hac. (Mixture of plant shrubs and grasses)
- ii) **Spacement:-** Pits of size 45x45x45 cm and 30x30x30 cm will be used for planting 60% naked root stock and 40% P/Bags stock.
- iii) **Species:-** Based on locality factor and demand of people.
- iv) **Plantation Method:-** Pit planting method.
- v) **Soil and moisture conservation works:-** 25% of afforestation cost.
- vi) **Protection (fencing, watch men, People's participation etc):-** Area will be protected from grazing by erecting barbed wire fencing at all vulnerable places around the plantation.
- vii) **Proposed Monitoring Mechanism:-** By higher authority.
- viii) **Any other information :-** Nil

Date:

Place: Karsog

Divisional Forest Officer,
Karsog Forest Division, HP.

Full Title of the Project: Diversion of 406.79 hect. Of forest land in favour of Thana Plaun HEP (191MW), HPPCL within the jurisdiction of Joginder Nagar & Mandi Forest Divisions, Distt. Mandi, HP.

Detailed scheme for Compensatory Afforestation for Khasra No. 2205/611 in Muhal Sawindhar of Tehsil Karsog, Distt. Mandi, HP. measuring 14.48 hectares to be carried -out in lieu of 406.79 hect. of forest area to be diverted for construction of Thana Plaun HEP (191 MW) in favour of HPPCL.

1) Detail of degraded forest land /non- forest land:-

District : Mandi,

Village: Sawindhar,

Tehsil: Karsog,

District: Mandi, HP.

Name of Forest Division: Karsog,

Range: Pangna

Block/ Compartment/Survey No.: H43F3

Area to be afforested : 14.48 hect

2) Description of Area

I) Whether the site selected for Compensatory Afforestation is a land bank or not: No, the selected area is a Non- Forest Land.

II) If the CA site is other than the land bank, reasons be given: Yes (Non-Forest Land)

III) In case of non forest area identified for CA, then what is the distance of CA site from the adjoining forest boundary: Alongside Kidtya PF

IV) Soil type: Sandy loam.

V) Topography:

VI (a) Hilly/undulation/ Plain: Hilly

(b) Slope Steep / Medium/ Gentle: Medium

VII) Whether the area is bearing any root stock of vegetation, Bushes: Yes Bushes Present.

3) Plantation Model:-

Copy of the approved Compensatory Afforestation Scheme/ Model showing component-wise physical and financial break up to be enclosed.

4) Estimate for compensatory afforestation to be carried-out in lieu of area diverted under FCA, 1980 (For one hect. Area)

5) Fencing as per letter No. FI. State CAMPA/2010/Norms/VolII dated 30.05.2018 of Pr. CCF(HoFF)HP.

Cost per ha. (exclusive of cost of plants) = 63200/-

Cost of plants (1100 Nos. i.e. 1100x13) = 14300/-

Total Cost = 77500/-

6) Schedule of Plantation Programme:-

A (i) Details of year wise break up of requirements of funds is as under:

Year	Area in hac.	Rate/ha.	Total amount
New Plantation	14.48	77500	1122200
1st Year	14.48	6850	91948
2nd Year	14.48	4600	62264
3rd Year	14.48	2400	32580
4th Year	14.48	2400	32580
5th Year	14.48	2400	32580
6th Year	14.48	2400	32580
7th Year	14.48	2400	32580
8th Year	14.48	2400	32580
9th Year	14.48	2400	32580

10th year			
Total A (i)	14.48	2400	32580
A (ii) - cost of plants 20706 Nos.			1537052
Total (A)		13	269178
B (i) Soil Conservation works	14.48		1806230
ii) (a) Lantana Eradication 25%	14.48	30000	434400
(b) Maint. 1 st year	14.48	11750	174140
(c) Maint. 2 nd year	14.48	3150	45612
(d) Maint. 3 rd year	14.48	1250	18100
Total (B)		1250	18100
Total A+B			686352
Contingency @ 5%			2492582
Total			124629
Departmental charges @ 17.5%			2617211
G.Total			458012
			3075223

- 7) **Technical Details:-** Technical details of Compensatory Afforestation Scheme are as follows:
- General Detail:-** The plantation will be done through pit method as per plantation norms. The area will be protected by Barbed wire fencing and mixture of Conifer and B/L species will be planted. 1100 plants will be planted in all in 1.00 hac @ 1100 plants per hac. (Mixture of plant shrubs and grasses)
 - Spacement:-** Pits of size 45x45x45 cm and 30x30x30 cm will be used for planting 60% naked root stock and 40% P/Bags stock.
 - Species:-** Based on locality factor and demand of people.
 - Plantation Method:-** Pit planting method.
 - Soil and moisture conservation works:-** 25% of afforestation cost.
 - Protection (fencing, watch men, People's participation etc):-** Area will be protected from grazing by erecting barbed wire fencing at all vulnerable places around the plantation.
 - Proposed Monitoring Mechanism:-** By higher authority.
 - Any other information :-** Nil

Date:

Place: Karsog

Divisional Forest Officer,
Karsog Forest Division, HP.

Full Title of the Project: Diversion of 406.79 hect. Of forest land in favour of Thana Plaun HEP (191MW), HPPCL within the jurisdiction of Joginder Nagar & Mandi Forest Divisions, Mandi HP

"SCHEME FOR COMPENSATORY AFFORESTATION"

Detailed scheme for Compensatory Afforestation for Khasra No. 2229/2209/610 in Muhal Sawindhar of Tehsil Karsog, Distt. Mandi, HP. measuring 8.33 hectares to be carried -out in lieu of 406.79 hect. of forest area to be diverted for construction of Thana Plaun HEP (191 MW) in favour of HPPCL

1) Detail of degraded forest land /non- forest land:-

District : Mandi,
Tehsil: Karsog,
Name of Forest Division:Karsog,
Block/ Compartment/Survey No.: H43F3
Area to be afforested : 8.33 hect.

Village: Sawindhar,
District: Mandi, HP:
Range: Pangna

2) Description of Area

- I) Whether the site selected for Compensatory Afforestation is a land bank or not: No, the selected area is a Non- Forest Land.
- II) If the CA site is other than the land bank, reasons be given: Yes (Non-Forest Land)
- III) In case of non forest area identified for CA, then what is the distance of CA site from the adjoining forest boundary: Alongside Kidiya PF
- IV) Soil type: Sandy loam.
- V) Topography:
- VI (a) Hilly/undulation/ Plain: Hilly
- (b) Slope Steep / Medium/ Gentle: Medium
- VII) Whether the area is bearing any root stock of vegetation, Bushes: Yes Bushes Present.

3) Plantation Model:-

Copy of the approved Compensatory Afforestation Scheme/ Model showing component-wise physical and financial break up to be enclosed.

- 4) Estimate for compensatory afforestation to be carried-out in lieu of area diverted under FCA, 1980 (For one hect. Area)
- 5) Fencing as per letter No. Fl. State CAMPA/2010/Norms/Vol.II dated 30.05.2018 of Pr. CCF(HoFF)HP.
Cost per ha. (exclusive of cost of plants) = 63200/-
Cost of plants (1100 Nos. i.e. 1100x13) = 14300/-
Total Cost = 77500/-

6) Schedule of Plantation Programme:-

A (i) Details of year wise break up of requirements of funds is as under:

Year	Area in hac.	Rate/ha.	Total amount
New Plantation	8.33	77500	645575
1st Year	8.33	6850	52896
2nd Year	8.33	4600	35819
3rd Year	8.33	2400	18743
4th Year	8.33	2400	18743
5th Year	8.33	2400	18743
6th Year	8.33	2400	18743
7th Year	8.33	2400	18743
8th Year	8.33	2400	18743
9th Year	8.33	2400	18743

10th Year	8.33	2400	18743
Total A (i)			884234
A (ii)- cost of plants 11912 Nos.		13	154856
Total (A)			1039090
B (i) Soil Conservation works	8.33	30000	249900
ii) (a) Lantana Eradication 25%	8.33	11750	97878
(b) Maint. 1 st year	8.33	3150	26240
(c) Maint. 2 nd year	8.33	1250	10413
(d) Maint. 3 rd year	8.33	1250	10413
Total (B)			394844
Total A+B			1433934
Contingency @ 5%			71697
Total			1505631
Departmental charges @ 17.5%			263485
G.Total			1769116

7) Technical Details:- Technical details of Compensatory Afforestation Scheme are as follows:

- i) General Detail:- The plantation will be done through pit method as per plantation norms. The area will be protected by Barbed wire fencing and mixture of Conifer and B/L species will be planted. 1100 plants will be planted in all in 1.00 hac@1100 plants per hac. (Mixture of plant shrubs and grasses)
- ii) Spacement:- Pits of size 45x45x45 cm and 30x30x30 cm will be used for planting 60% naked root stock and 40% P/Bags stock.
- iii) Species:- Based on locality factor and demand of people.
- iv) Plantation Method:- Pit planting method.
- v) Soil and moisture conservation works:- 25% of afforestation cost.
- vi) Protection (fencing, watch men, People's participation etc):- Area will be protected from grazing by erecting barbed wire fencing at all vulnerable places around the plantation.
- vii) Proposed Monitoring Mechanism:- By higher authority.
- viii) Any other information :- Nil

Date:

Place: Karsog

Divisional Forest Officer,
Karsog Forest Division, HP.

CHECK LIST SERIAL NO.17

SCHEME FOR COMPENSATORY AFFORESTATION 7 TO 10 YEARS

DETAIL SCHEME FOR COMPENSATORY AFFORESTATION IN 40 HECTARE TO BE CARRIED OUT IN LIEU OF 406.79 HECTARE OF DIVERSION OF FOREST AREA FOR THE CONSTRUCTION OF THANA PLAUN (191MW) HYDRO ELECTRIC PROJECT WITHIN JURISDICTION OF MANDI FOREST DIVISION.

Detail of degraded forest/Non forest land		Degraded forest	
District		Mandi.	
Tehsil		Sadar	
Name of Division		Mandi	
Area to be afforested		40 Ha	

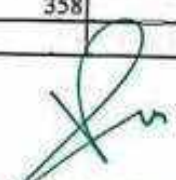
Sr. No.	Name of Forest Range	Block	Name of forest	Area in ha.	Survey sheet No.
1	Drang	Drang	Lanjhun	40	53A/13
Description of area					
(i)	Whether the site selected for CA is land bank or not				Yes.
(ii)	If the CA site is other than land bank, reason be given				-
(iii)	In case of non forest area indentified for CA than what is the				-
(iv)	Soil Type				Sandy loam
(v)	Topography a) Hilly/Universal/Plain				Hilly
(vi)	b) Slope; steep/Medium/ Gentle				Medium
(vii)	Whether the area is bearing any root stock of vegetation				Bushes.
3	Plantation Model:- Copy of approved Compensatory				Attached.
4	Schedule of Plantation Programme				

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

Compensatory afforestation (1100 plants/Hac.) with RCC Fence Post and 4-strand Barbed wire fencing					
S.No.	Particulars including soil & Moisture conservation.	Qty. in ha	Rate in Rs. (per ha)	Amount	
1	Survey, Demarcation and Fencing	40	38500	1540000	
	PLANTING	40	45160	1806400	
			Total	3346400	
2	Maintenance				
	1 st year	40	9100	364000	
	2 nd year	40	6140	245600	
	3 rd year to 10 th year maintenance (8 years)	40	3180	1017600	
			Total	1627200	
3	Soil conservation works	40	1,00,000	4000000	
4	Removal of invasive species	20	32750	655000	
			Total	4655000	
A	Grand Total (1 to 4)			9628600	
GST on cost of fence posts = 40 Hac. Per hac. 50 Fence post=2000(Total fence post=2000x 358 per hac=716000@ 18% =128880/-				0	
B	Nursery cost	Area	No. of Plants/ha	Total Plants	Rate per plant
		40	1100	44000	23
C	Cost of trees for maintenance @ 70% of original planted plants			30800	23
	Total B&C				1720400
	Total (A+B+C)				11349000
D	Contingence 5% over the C.A. Scheme				567450
	Total (A+B+C+D)				11916450
E	Departmental charges @ 17.5%				2085379
	Total amount for 10 hac CA Scheme (A+B+C+D+E)				14001829

Technical Detail:-**Technical detail of compensatory afforestation is as under:-**

Technical detail of compensatory afforestation is as under:-				Remarks		
a.	General detail	The area shall be closed to improve the vegetation cover in the locality to enhance the moisture and water table.				
b.	Spa cement	3mx3m				
c.	Species	Broad leave.				
d.	Plantation method	Pit digging.				
e.	Soil & moisture conservation works;	Work shall be carried out for the same.				
f.	Protection	Fencing & people participation.				
g.	Proposed Monitoring Mechanism	As per guidelines.				
h.	Any other information	Nil.				
Note:-(i)		Rate of fence post has been charged Rs. 358/--rupees per fence post as fixed by Pr. CCF.H.P. vide letter No. Ft. State Campa/2010 /Norms/Volume 2 dated 21 th June 2021. The amount of CA has been calculated as per norms fixed as above.				
Area in Ha.		Fence Post per ha.	Total fence post is to be used at the time of planting	Cost of fence post	Total amount	
40		50	2000	358	716000	
Note:(ii)		GST on Cost of fence post @ 18%			128880	


 Deputy Conservator of Forests
 Mandi Forest Division, Mandi (H.P.)

CHECK LIST SERIAL NUMBER :- 17

"SCHEME FOR COMPENSATORY AFFORESTATION"

Detail scheme for compensatory Afforestation to be carried out in lieu of forest area to be diverted for the C/O Thana Plaun (191 MW) in Dist. Mandi with in the jurisdiction of Suket Forest Division, Sundernagar in Mandi District.

1. Detail of degraded forest land/non forest land:-

District	Mandi	Village	Naval
Tehsil	Sundernagar		
Name of Division	Suket	Range	Jal Devi
Block/Compartment/Survey No.	Khasia No. 167 of Mihal Naval		
Area to be afforested :- 6 ha.			

2. Description of Area

- Whether the site selected for compensatory Afforestation is a land
Yes
- If the CA site is other than land bank, reasons be :-
No
- In case of non forest area identified for CA, then what is the distance of Out side forest area
Sandy loam, Shallow
- Soil type :-
Hilly
- Topography a. Hilly/Undulating/Plain :-
b. Slope:- Steep/Medium/Gentle :-
Steep
- Whether the area is bearing any root stock of vegetation:-
Yes

3. Plantation Model

Copy of the approved Compensatory Afforestation Scheme/Model showing component wise

4. Schedule of Plantation Programme

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

Year	Area	Rate/h a.	Nursery cost	Total Amount
0 th Year (New Plantation)	6.0000 ha	60150	24200	506100
1 st Year	6.0000 ha	6350	7260	81660
2 nd Year	6.0000 ha	4300	4840	54840
3 rd Year	6.0000 ha	2250	2420	28020
4 th Year	6.0000 ha	2250	2420	28020
5 th Year	6.0000 ha	2250	2420	28020
6 th Year	6.0000 ha	2250	2420	28020
7 th Year	6.0000 ha	2250	2420	28020
8 th Year	6.0000 ha	2250	2420	28020
9 th Year	6.0000 ha	2250	2420	28020
10 th Year	6.0000 ha	2250	2420	28020
Total C.A. Scheme				866760
Departmental charges @ 17.5%				151683
Contingency charges @ 5%				43338

Total 1061781

2. Technical details

Technical details of Compensatory Afforestation Scheme are as follows:-

- General Details: The area shall be closed to improve the vegetation cover in locality
- Spacing: 3X3 mtrs. Between pits & pits of size 45X45x45 cm & 30x30x30 cm size
- Species: Broad leave
- Plantation Method: Pit digging
- Soil and Moisture Conservation Works: Small scale engg.
- Protection: (Fencing, Watch man, People's Participation etc.)
- Proposed Monitoring Mechanism: As per guidelines
- Any other information: No.

Amr
Divisional Forest Officer
Suket Forest Division
Sundernagar (H.P.) - 175018

Full title of the Project: Diversion of 406.79 hect of forest land in favour HP Power Corporation
Jurisdiction of Joginder Nagar Forest Division, Distt. Mandi, HP.

SCHEME FOR COMPENSATORY AFFORESTATION

Detailed scheme for 7.03 hect Compensatory Afforestation and its maintenance for 10 year to be carried out in lieu of forest area to be diverted for the Construction of Thana Plaun HEP (191 MW) within the jurisdiction of Joginder Nagar Forest Division, Distt. Mandi, HP.

1. Details of degraded forest land /non-forest land..

District: Mandi

Village: Ropapadhar

Tehsil: Joginder Nagar.

Distt. Mandi

Name of Forest Division: Joginder Nagar.

Range : Joginder Nagar.

Block/ Compartment/ Survey No: H43F1

Area to be afforested: 7.03 hac.

2. Description of the Area:-

- (x) Whether the site selected for Compensatory Afforestation is a land bank or not _Yes.
- x) If the CA site is other than the land bank, reasons be given- No
- xi) In case of non forest area identified for CA, then what is the distance of CA site from the adjoining forest boundary: Outside Forest Area
- xii) Soil type- Sandy Loam
- xiii) Topography:
 - (a) Hilly/ Undulating/ Plain - Hilly
 - (b) Slope Steep/ Medium/ Gentle Medium.
- vi) Whether the area is bearing any root stock of vegetation. Buses

3. Plantation Model Copy of the approved Compensatory Afforestation Scheme /Model showing component wise physical and financial break up to be enclosed.

4. Estimate for Compensatory afforestation to be carried out in lieu of area diverted under FCA, 1980 (For one hect. area)

- A. Compensatory Afforestation (100) Plants/Ha) with RCC Fence Posts and 4 stand Barbed wire Fencing as per norms 2019-20



-Cost per ha. (Exclusive of cost of plants)= 63,200/-

-Total Solution (3.04, 0.11)

B Maintenance for ten years

Maintenance (Wages)		
1.	1 st Year Maintenance	6850
2.	2 nd Year maintenance	4600
3.	3 rd Year maintenance	2400
4.	4 th Year maintenance	2400
5	5 th Year maintenance	2400
6	6 th Year maintenance	2400
7	7 th Year maintenance	2400
8	8 th Year maintenance	2400
9	9 th Year maintenance	2400
10	10 th Year maintenance	2400
	Total	30650
	Total A+B	1,15,267/-
Maintenance Cost of Plants		
	Add cost of plants 1 st year = 2320 Nos. (i.e 30% of total number planted in planting year), 2 nd year= 1547 Nos. (i.e 20% of total number planted in planting year), 3 rd year =773 (i.e 10% of total number planted in planting year) Total- 4640 Nos @ 19.47/- per plants	90,341/-
C	Vegetative, Dry Stone, Brushwood check dam	30,000/-
D	Lantana Eradication works I/C maintenance	22,000/-
	Total cost per hect. i.e A+B++C+D: 84617+30650+30000+22000=	1,67,267/-
	For 7.03 hect for CA Wages	11,75,887/-
	Total	12,66,229/-
	Add 5% contingency charges	63,311/-
	Total	13,29,540/-
	Add 17.50 % Departmental charges	2,32,670/-
	Total	15,62,210/-

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9. Schedule of Plantation Programme:-

A (i) Details of year-wise break up of requirements of funds is as under:

0 th Year	7.03 ha.	84617/-	5,94,858/-
1 st Year	-do-	6850/-	48,156/-
2 nd Year	-do-	4600/-	32,338/-
3 rd Year	-do-	2400/-	16,872/-
4 th Year	-do-	2400/-	16,872/-
5 th Year	-do-	2400/-	16,872/-
6 th Year	-do-	2400/-	16,872/-
7 th Year	-do-	2400/-	16,872/-
8 th Year	-do-	2400/-	16,872/-
9 th Year	-do-	2400/-	16,872/-
10 th Year	-do-	2400/-	16,872/-
Total A (i)			8,10,328/-
A(ii)- Cost of Plants 4640 Nos.		19,47/-	90,341/-
Total (A)			9,00,669/-
Soil conservation works	7.03 ha.	30000/-	2,10,900/-
Lantana eradication	7.03 ha.	22000/-	1,54,660/-
Total (B)			3,65,560/-
Total A+B			12,66,229/-
Contingency @ 5%			63,311/-
Total			13,29,540/-
Department charges @ 17.5%			2,32,670/-
Total			15,62,210/-

10. Technical details:-

Technical details of Compensatory Afforestation Scheme are as follows:-

- vi) General details:- Plantation will be done through Pit method as per plantation norms.
- vii) Spacement:- Pits of size 45 x 45 x 45 cm and 30x30x30 cm will used for planting of 60% naked root stock and 40% P/Bag stock.
- viii) Species:- Based on locality factor and demand of people.
- ix) Plantation Method:- Pit planting method.
- x) Soil and Moisture Conservation Works:- 25% of afforestation cost.
- xiv) Protection (Fencing Watchman, People's participation etc):- B/wire fencing using concrete same posts.
- xv) Proposed monitoring Mechanism:- By higher authority.
- xvi) Any other information:- nil

[Signature]
 Divisional Forest Officer
 Joginder Nagar Forest Division
 Joginder Nagar (H.P.)

CHECK LIST SERIAL NUMBER :- 17

"SCHEME FOR COMPENSATORY AFFORESTATION"

Detail scheme for compensatory Afforestation to be carried out in lieu of forest area to be diverted for the C/O Thana Plain (191 MW) in Dist. Mandi with in the jurisdiction of Suket Forest Division, Sundernagar in Mandi District.

1. Detail of degraded forest land/non forest land:-

District	Mandi	Village	Saishdhar
Tehsil	Sundernagar		
Name of Division	Suket	Range	Jal Devi
Block/Compartment/Survey No.	Khasra No. 376 of Mubal Saishdhar		

Area to be afforested :- 5 ha.

2. Description of Area

- i. Whether the site selected for compensatory Afforestation is a land Yes
- ii. If the CA site is other than land bank, reasons be :- No
- iii. In case of non forest area identified for CA, then what is the distance of out side Forest area Sandy loam, Shallow
- iv. Soil type :- Hilly
- v. Topography a. Hilly/Undulating/Plain :- Steep
- b. Slope :- Steep/Medium/Gentle :- Yes
- vi. Whether the area is bearing any root stock of vegetation:-

3. Plantation Model

Copy of the approved Compensatory Afforestation Scheme/Model showing component wise

Contd.....2.....

4. Schedule of Plantation Programme

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

Year	Area	Rate/h a.	Nursery cost	Total Amount
0 th Year (New Plantation)	5.0000 ha	60150	24200	421750
1 st Year	5.0000 ha	6350	7260	68050
2 nd Year	5.0000 ha	4300	4840	45700
3 rd Year	5.0000 ha	2250	2420	23350
4 th Year	5.0000 ha	2250	2420	23350
5 th Year	5.0000 ha	2250	2420	23350
6 th Year	5.0000 ha	2250	2420	23350
7 th Year	5.0000 ha	2250	2420	23350
8 th Year	5.0000 ha	2250	2420	23350
9 th Year	5.0000 ha	2250	2420	23350
10 th Year	5.0000 ha	2250	2420	23350
Total C.A. Scheme				722300
Departmental charges @ 17.5%				126403
Contingency charges @ 5%				36115
Total				884818

2. Technical details

Technical details of Compensatory Afforestation Scheme are as follows :

- General Details : The area shall be closed to improve the vegetation cover in locality.
- Spacing : 3X3 mtrs. Between pits & pits of size 45X45x45 cm. & 30x30x30 cm size
- Species : Broad leave
- Plantation Method : Pit digging
- Soil and Moisture Conservation Works : Small scale engg.
- Protection : (Fencing, Watch man, People's Participation etc.)
- Proposed Monitoring Mechanism : As per guidelines
- Any other information : No.

Amey
Divisional Forest Officer
Suket Forest Division
Sundemagar (H.P.) - 175018

SCHEME FOR COMPENSATORY AFFORESTATION 7 TO 10 YEARS
DETAIL SCHEME FOR COMPENSATORY AFFORESTATION IN 6.07 HECTARE TO BE CARRIED OUT IN LIEU OF 406.79 HECTARE OF DIVERSION OF FOREST AREA FOR THE CONSTRUCTION OF THANA PLAUN (191MW) HYDRO ELECTRIC PROJECT WITHIN JURISDICTION OF MANDI FOREST DIVISION.

Detail of degraded forest/Non forest land	Degraded forest
District	Mandi.
Tehsil	Sadar
Name of Division	Mandi
Area to be afforested	6.07 Ha.

Sr. No.	Name of Forest Range	Block	Name of forest	Area in ha.	Survey sheet No.
1	Kataula		Solang	6.07	53E/1
	Description of area				
(i)	Whether the site selected for CA is land bank or not				Yes.
(ii)	If the CA site is other than land bank, reason be given				-
(iii)	In case of non forest area indentified for CA than what is the				-
(iv)	Soil Type				Sandy loam
(v)	Topography a) Hilly/Universal/Plain				Hilly
(vi)	b) Slope; steep/Medium/ Gentle				Medium
(vii)	Whether the area is bearing any root stock of vegetation				Bushes.
3	Plantation Model:- Copy of approved Compensatory				Attached.
4	Schedule of Plantation Programme				

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

	Compensatory afforestation (1100 plants/Hac.) with RCC Fence Post and 4-strand Barbed wire fencing			
S.No.	Particulars including soil & Moisture conservation.	Qty. in ha	Rate in Rs. (per ha)	Amount
1	Survey, Demarcation and Fencing	6.07	38500	233695
	PLANTING	6.07	45160	274121
			Total	507816
2	Maintenance			
	1 st year	6.07	9100	55237
	2 nd year	6.07	6140	37270
	3 rd year to 10 th year maintenance (8 years)	6.07	3180	154421
			Total	246928
3	Soil conservation works	6.07	1,00,000	607000
4	Removal of invasive species	3	32750	98250
			Total	705250

A	Grand Total (1 to 4)	1459994
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	GST on cost of fence posts = 6.07 Hac. Per hac. 50 Fence post=304 (Total fence post=304x 358 per hac=108653 @ 18% =19558/-	0
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B	Nursery cost	Area	No. of Plants/ha	Total Plants	Rate per plant	
		6.07	1100	6677	23	153571
C	Cost of trees for maintenance @ 70% of original planted plants			4674	23	107500
	Total B&C					261071
	Total (A+B+C)					1721065
D	Contingence 5% over the C.A. Scheme					86053
	Total (A+B+C+D)					1807118
E	Departmental charges @ 17.5%					316246
	Total amount for 10 hac CA Scheme (A+B+C+D+E)					2123363

Technical Detail:-**Technical detail of compensatory afforestation is as under:-**

a.	General detail	The area shall be closed to improve the vegetation cover in the locality to enhance the moisture and water table.	Remarks
b.	Spa cement	3mx3m	
c.	Species	Broad leave.	
d.	Plantation method	Pit digging.	
e.	Soil & moisture conservation works;	Work shall be carried out for the same.	
f.	Protection	Fencing & people participation.	
g.	Proposed Monitoring Mechanism	As per guidelines.	
h.	Any other information	Nil.	

Note:-(i)

Rate of fence post has been charged Rs. 358/-rupees per fence post as fixed by Pr. CCF.H.P. vide letter No. Ft. State Campa/2010 /Norms/Volume 2 dated 21th June 2021. The amount of CA has been calculated as per norms fixed as above.

Area in Ha.	Fence Post per ha.	Total fence post is to be used at the time of planting	Cost of fence post	Total amount	
6.07	50	303.5	358	108653	
Note:(ii)	GST on Cost of fence post @ 18%			19558	


Deputy Conservator of Forests
Nandi Forest Division of Forests,
Nandi Forest Division Mandi

SCHEME FOR COMPENSATORY AFFORESTATION 7 TO 10 YEARS

DETAIL SCHEME FOR COMPENSATORY AFFORESTATION IN 17.64 HECTARE TO BE CARRIED OUT IN LIEU OF 406.79 HECTARE OF DIVERSION OF FOREST AREA FOR THE CONSTRUCTION OF THANA PLAUN (191MW) HYDRO ELECTRIC PROJECT WITHIN JURISDICTION OF MANDI FOREST DIVISION.

HYDRO ELECTRIC PROJECT WITHIN JURISDICTION OF MANDI FOREST DIVISION

	Detail of degraded forest/Non forest land			Degraded forest	
	District			Mandi.	
	Tehsil			Sadar	
	Name of Division			Mandi	
	Area to be afforested			17.64 Ha	
Sr. No.	Name of Forest Range	Block	Name of forest	Area in ha.	Survey sheet No.
1	Kataula	Bagi	Suran	17.64	53E/1
	Description of area				Yes.
(i)	Whether the site selected for CA is land bank or not				-
(ii)	If the CA site is other than land bank, reason be given				-
(iii)	In case of non forest area indentified for CA than what is the				Sandy loam
(iv)	Soil Type				Hilly
(v)	Topography a) Hilly/Universal/Plain				Medium
(vi)	b) Slope; steep/Medium/ Gentle				Bushes.
(vii)	Whether the area is bearing any root stock of vegetation				Attached.
3	Plantation Model:- Copy of approved Compensatory				
4	Schedule of Plantation Programme				

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

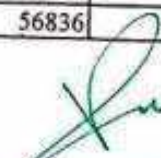
Compensatory afforestation (1100 plants/Hac.) with RCC Fence Post and 4-strand Barbed wire fencing				
S.No.	Particulars including soil & Moisture conservation.	Qty. in ha	Rate in Rs. (per ha)	Amount
1	Survey ,Demarcation and Fencing	17.64	38500	679140
	PLANTING	17.64	45160	796622
			Total	1475762
2	Maintenance			
	1 st year	17.64	9100	160524
	2 nd year	17.64	6140	108310
	3 rd year to 10 th year maintenance (8 years)	17.64	3180	448762
			Total	717595
3	Soil conservation works	17.64	1,00,000	1764000
4	Removal of invasive species	9	32750	294750
			Total	2058750

A Grand Total (1 to 4) 4252108

GST on cost of fence posts = 17.64 Hac. Per hac. 50 Fence post=882(Total fence post=882 x 358 per hac=315756@ 18% =56836/- 0

B	Nursery cost	Area	No. of Plants/ha	Total Plants	Rate per plant	
		17.64	1100	19404	23	446292
C	Cost of trees for maintenance @ 70% of original planted plants			13583	23	312404
	Total B&C					758696
	Total (A+B+C)					5010804
D	Contingence 5% over the C.A. Scheme					250540
	Total (A+B+C+D)					5261344
E	Departmental charges @ 17.5%					920735
	Total amount for 10 hac CA Scheme (A+B+C+D+E)					6182079

Technical Detail:-					
Technical detail of compensatory afforestation is as under:-					
a.	General detail	The area shall be closed to improve the vegetation cover in the locality to enhance the moisture and water table.			Remarks
b.	Spa cement	3mx3m			
c.	Species	Broad leave.			
d.	Plantation method	Pit digging.			
e.	Soil & moisture conservation works;	Work shall be carried out for the same.			
f.	Protection	Fencing & people participation.			
g.	Proposed Monitoring Mechanism	As per guidelines.			
h.	Any other information	Nil.			
Note:-(i)		Rate of fence post has been charged Rs. 358/-rupees per fence post as fixed by Pr. CCF.H.P. vide letter No. Ft. State Campa/2010 /Norms/Volume 2 dated 21 th June 2021. The amount of CA has been calculated as per norms fixed as above.			
Area in Ha.		Fence Post per ha.	Total fence post is to be used at the time of planting	Cost of fence post	Total amount
17.64		50	882	358	315756
Note:(ii)		GST on Cost of fence post @ 18%			56836


 Deputy Conservator of Forests
 Mandi Forest Division, Mandi (H.P.)