



**HIMACHAL PRADESH FOREST DEPARTMENT
KULLU FOREST DIVISION KULLU, H.P.**

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No.FCA/ 1490

Dated Kullu, the : 04th June, 2025

From: DFO, Kullu.

To: DFO, Bharmour

Subject: Diversion of 13.3082 hectare of forest land in favour of M/s Sai Eternal Foundation, Sai Bhawan, Sector-04, New Shimla, HP for the construction of Tundah-II HEP (24.0 MW) within the jurisdiction of Bharmour Forest Division, District Chamba, HP. (FP/HP/HYD/49283/2020).

Memo:

Please refer to the online EDS dated 10.03.2025 raised by MoEF & CC, GoI on the above cited subject.

2. In this regard, in reply to point No.(viii) of EDS dated 10.03.2025, the revised copy of CA Scheme (in duplicate) alongwith CA Site photographs and certificate regarding density of CA area is attached herewith for information and further necessary action at your end please.

Encl: As above.

**Divisional Forest Officer
Kullu, Forest Division Kullu.**

**OFFICE OF THE DIVISIONAL FOREST OFFICER, KULLU FOREST DIVISION
GOVERNMENT OF HIMACHAL PRADESH**

COMPENSATORY AFFORESTATION BILL

Reference: Observations of the 74th REC dated 31.01.2025

Project Name: Construction of Tundah-II HEP (24.0 MW)

Location of CA Site: Dugilag-III, Mangarh-III & Mangarh-III (Thach Padru)

Parameter	Details
Latitude & Longitude	32°0'55.66"N 77°1'16.32"E , 32°3'31.27"N 76°59'31.22"E, 31°59'42.41"N 77°0'2.23"E
Elevation	2683 meters above sea level
Aspect	North-East facing
Soil Depth	290 cm
Soil Type	Sandy/Loamy/Clayey, etc.
Area Dimensions	NA
Existing Vegetation	Bushes & Saplings (e.g. Cedrus Deodara, Kail etc.)
Land Status	Forest land

Soil & Moisture Conservation Measures

Measure	Details
Contour Trenches	To prevent soil erosion and enhance water retention
Check Dams	Small stone or brushwood structures to reduce runoff velocity
Mulching	Use of organic matter to retain soil moisture
Plantation Pits	Properly dug with a mix of soil and organic manure for better plant survival
Water Harvesting Structures	Small pond for rainwater conservation

Plantation Plan

Parameter	Details
Total Area for Afforestation	NA
Number of Saplings to be Planted	29282
Plantation Density	1100/ plants per hectare
Species Selected	Cedrus Deodara, Pinus Wallichiana, Quercus Semicarpifolia, Alnus Nitida etc.
Justification for Species Selection	Species chosen based on ecological suitability, survival rate, and biodiversity benefits
Nursery Source	Departmental
Maintenance Plan	Regular watering, protection measures, and survival assessment

Photographic Evidence of Site Inspection

Type	Details
Pre-Afforestation Condition	(Photographs attached)
DFO Site Inspection Photographs	(Attached)
Existing Soil & Moisture Conservation Structures	Nil

Budget & Timeline

Component	Cost (₹)
Site Preparation	3522480

Component	Cost (₹)
Plantation	4380587
Maintenance	4158044
Soil Conservation Measures	1598000
Total Estimated Cost	13659111
Timeline	Details
Start Date – End Date	2026-27 to 2036-37
Monitoring Plan	Periodic inspections and reporting at 6-month intervals

Approval & Recommendations

The revised CA Scheme has been prepared in accordance with the REC recommendations and is submitted for approval.



Divisional Forest Officer
Kullu, Forest Division Kullu.
Divisional Forest Officer
Kullu Forest Division Kullu

Date: 04.06.2025

Attachments:

1. Site Inspection Photographs
2. Detailed Maps with Coordinates
3. Budget Breakup Sheet

This document ensures compliance with the REC observations and provides a comprehensive framework for successful compensatory afforestation implementation.

**“SCHEME FOR COMPENSATORY AFFORESTATION”
(Norms-2024-25)**

In lieu of diversion of 13.3082 hectare of forest land in favour of M/s Sai Eternal Foundation, Sai Bhawan, Sector-04, New Shimla, HP for the construction of Tundah-II HEP (24.0 MW) within the jurisdiction of Bharmour Forest Division, District Chamba, HP.

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

Area: **Dugilag-III** District:- **Kullu** Tehsil:- **Kullu**
 Division: **Kullu** Range:- **Bhutti** Block/Beat:- **Rujag/Shalang**
 Compartment/Survey No: **52 H/4** Area to be afforested:- **13.0 ha.**

2. Description of area:-

- i. Whether the site selected for compensatory afforestation is a land bank or not:- **Yes**
- ii. If the CA site is other than the land bank, reasons be given:- **No**
- iii. In case of non forest area identified in from-A, then what is the distance of CA site from the adjoining forest boundary :- **forest area**
- iv. Soil type:- **Sandy-loamy/apparently deep**
- v. Topography :- a) **Hilly**
b) **Medium**
- vi. Whether the area is bearing any root stock of vegetation:- **Yes**

Plantation Model:- **Departmental**

Copy of the approved compensatory afforestation scheme/ model showing component wise physical and financial break up is enclosed.

Schedule of Plantation programme:-

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


Compensatory Afforestation Bill							
S. N.	Particulars	Area in ha.	Year	Rate per Hectare	Cost Escalation	Rate After applying cost escalation	Total Amount (Rs)
1.	New Plantation	13.0	2026-27	149600	10%	164560	2139280
2.	1 st Year Maintenance	13.0	2027-28	22700	20%	27240	354120
3.	2 nd Year Maintenance	13.0	2028-29	15200	30%	19760	256880
4.	3 rd Year Maintenance	13.0	2029-30	7800	40%	10920	141960
5.	4 th Year Maintenance	13.0	2030-31	7800	50%	11700	152100
6.	5 th Year Maintenance	13.0	2031-32	7800	60%	12480	162240
7.	6 th Year Maintenance	13.0	2032-33	7800	70%	13260	172380

8.	7 th Year Maintenance	13.0	2033-34	7800	80%	14040	182520	
9.	8 th Year Maintenance	13.0	2034-35	7800	90%	14820	192660	
10.	9 th Year Maintenance	13.0	2035-36	7800	100%	15600	202800	
11.	10 th Year Maintenance	13.0	2036-37	7800	110%	16380	212940	
						Total	416988	
Cost of Soil Moisture Conservation Works to be carried out for CA area								
	Use of Fertilizers & organic matter for retaining moisture			800 Kg		40	32000	
	Contour Trench Works			250 Nos.		100	25000	
	Dry Stone Masonary Check Dams			8 Nos		30000	240000	
	Crate Wire Check Dams			8 Nos.		30000	240000	
	Rain Water Harvesting Structure for watering of plants			1		150000	150000	
	Total						687000	
	Total Plantation for 1100 plants/ha with 10 Year Maintenance with Soil Moisture Works							485688
	10% increase for CA rates							485688
	Total							5342568
	Departmental charges @ 17.5%							934949
	Contingency Charges @ 5%							267128
	Total cost of CA							6544646
Rupees Sixty Five Lakh Forty Four Thousand Six Hundred and Forty Six Only								

4. Technical details:-

Technical details of compensatory afforestation scheme are as follows:-

- a) **General Details :-** Indigenous Conifer/ B/L species will be planted.
- b) **Spacing:** 3 mtr x 3 mtr.
- c) **Species:** Cedrus Deodara, pinus wallichiana, salix Spp. etc.
- d) **Plantation Method:** Artificial plantation with RCC Fencing.
- e) **Soil Moisture Conservation Works:-** Trench Works, Dry Stone Check Dams, Crate Wire Check Dams & Rain Water Harvesting Structure will be constructed.
- f) **Protection (Fencing , Watchman, People's Participation etc.)**
- g) **Proposed Monitoring Mechanism :-** Department.
- h) **Any other information :-** Nil


Divisional Forest Officer,
Kullu Forest Division, Kullu.
 Divisional Forest Officer
 Kullu Forest Division Kullu

**“SCHEME FOR COMPENSATORY AFFORESTATION”
(Norms-2024-25)**

In lieu of diversion of 13.3082 hectare of forest land in favour of M/s Sai Eternal Foundation, Sai Bhawan, Sector-04, New Shimla, HP for the construction of Tundah-II HEP (24.0 MW) within the jurisdiction of Bharmour Forest Division, District Chamba, HP.

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

Area: **Mangarh-III** District:- **Kullu** Tehsil:- **Kullu**
 Division: **Kullu** Range:- **Bhutti** Block/Beat:- **Rujag/Tiun**
 Compartment/Survey No: **52 D/16** Area to be afforested:- **10.0 ha.**

2. Description of area:-

- i. Whether the site selected for compensatory afforestation is a land bank or not:- **Yes**
- ii. If the CA site is other than the land bank, reasons be given:- **No**
- iii. In case of non forest area identified in from-A, then what is the distance of CA site from the adjoining forest boundary :- **forest area**
- iv. Soil type:- **Sandy-loamy/apparently deep**
- v. Topography :- a) **Hilly**
b) **Medium**
- vi. Whether the area is bearing any root stock of vegetation:- **Yes**

Plantation Model:- **Departmental**

Copy of the approved compensatory afforestation scheme/ model showing component wise physical and financial break up is enclosed.

Schedule of Plantation programme:-

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


Compensatory Afforestation Bill							
S. N.	Particulars	Area in ha.	Year	Rate per Hectare	Cost Escalation	Rate After applying cost escalation	Total Amount (Rs)
1.	New Plantation	10.0	2026-27	149600	10%	164560	1645600
2.	1 st Year Maintenance	10.0	2027-28	22700	20%	27240	272400
3.	2 nd Year Maintenance	10.0	2028-29	15200	30%	19760	197600
4.	3 rd Year Maintenance	10.0	2029-30	7800	40%	10920	109200
5.	4 th Year Maintenance	10.0	2030-31	7800	50%	11700	117000
6.	5 th Year Maintenance	10.0	2031-32	7800	60%	12480	124800
7.	6 th Year Maintenance	10.0	2032-33	7800	70%	13260	132600

8.	7 th Year Maintenance	10.0	2033-34	7800	80%	14040	140400
9.	8 th Year Maintenance	10.0	2034-35	7800	90%	14820	148200
10.	9 th Year Maintenance	10.0	2035-36	7800	100%	15600	156000
11.	10 th Year Maintenance	10.0	2036-37	7800	110%	16380	163800
						Total	3207600
Cost of Soil Moisture Conservation Works to be carried out for CA area							
	Use of Fertilizers & organic matter for retaining moisture			600 Kg		40	24000
	Contour Trench Works			150 Nos.		100	15000
	Dry Stone Masonary Check Dams			5 Nos		30000	150000
	Crate Wire Check Dams			5 Nos.		30000	150000
	Rain Water Harvesting Structure for watering of plants			1		150000	150000
	Total						489000
	Total Plantation for 1100 plants/ha with 10 Year Maintenance with Soil Moisture Works						3696600
	10% increase for CA rates						369660
	Total						4066260
	Departmental charges @ 17.5%						711596
	Contingency Charges @ 5%						203313
	Total cost of CA						4981169
Rupees Forty Nine Lakh Eighty One Thousand One Hundred and Sixty Nine Only							

4. Technical details:-

Technical details of compensatory afforestation scheme are as follows:-

- a) **General Details :-** Indigenous Conifer/ B/L species will be planted.
- b) **Spacing:** 3 mtr x 3 mtr.
- c) **Species:** Cedrus Deodara, pinus wallichiana, salix Spp. etc.
- d) **Plantation Method:** Artificial plantation with RCC Fencing.
- e) **Soil Moisture Conservation Works:-** Trench Works, Dry Stone Check Dams, Crate Wire Check Dams & Rain Water Harvesting Structure will be constructed.
- f) **Protection (Fencing , Watchman, People's Participation etc.)**
- g) **Proposed Monitoring Mechanism :-** Department.
- h) **Any other information :-** Nil


 Divisional Forest Officer,
 Kullu Forest Division, Kullu.
 Divisional Forest Officer
 Kullu Forest Division Kullu

“SCHEME FOR COMPENSATORY AFFORESTATION”
(Norms-2024-25)

In lieu of diversion of 13.3082 hectare of forest land in favour of M/s Sai Eternal Foundation, Sai Bhawan, Sector-04, New Shimla, HP for the construction of Tundah-II HEP (24.0 MW) within the jurisdiction of Bharmour Forest Division, District Chamba, HP.

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

Area: **Mangarh-III (Thach Padru)** District:- **Kullu** Tehsil:- **Kullu**
Division: **Kullu** Range:- **Bhutti** Block/Beat:- **Rujag/Mashna**
Compartment/Survey No: **52 E/1** Area to be afforested:- **3.62 ha.**

2. Description of area:-

- i. Whether the site selected for compensatory afforestation is a land bank or not:- **Yes**
 - ii. If the CA site is other than the land bank, reasons be given:- **No**
 - iii. In case of non forest area identified in from-A, then what is the distance of CA site from the adjoining forest boundary :- **forest area**
 - iv. Soil type:- **Sandy-loamy/apparently deep**
 - v. Topography :- a) **Hilly**
b) **Medium**
 - vi. Whether the area is bearing any root stock of vegetation:- **Yes**
- Plantation Model:- **Departmental**

Copy of the approved compensatory afforestation scheme/ model showing component wise physical and financial break up is enclosed.

Schedule of Plantation programme:-

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

Compensatory Afforestation Bill							
S. N.	Particulars	Area in ha.	Year	Rate per Hectare	Cost Escalation	Rate After applying cost escalation	Total Amount (Rs)
1.	New Plantation	3.62	2026-27	149600	10%	164560	595707
2.	1 st Year Maintenance	3.62	2027-28	22700	20%	27240	98609
3.	2 nd Year Maintenance	3.62	2028-29	15200	30%	19760	71531
4.	3 rd Year Maintenance	3.62	2029-30	7800	40%	10920	39530
5.	4 th Year Maintenance	3.62	2030-31	7800	50%	11700	42354
6.	5 th Year Maintenance	3.62	2031-32	7800	60%	12480	45178
7.	6 th Year Maintenance	3.62	2032-33	7800	70%	13260	48001

8.	7 th Year Maintenance	3.62	2033-34	7800	80%	14040	50825
9.	8 th Year Maintenance	3.62	2034-35	7800	90%	14820	53648
10.	9 th Year Maintenance	3.62	2035-36	7800	100%	15600	56472
11.	10 th Year Maintenance	3.62	2036-37	7800	110%	16380	59296
						Total	1161151
Cost of Soil Moisture Conservation Works to be carried out for CA area							
	Use of Fertilizers & organic matter for retaining moisture			300 Kg		40	24000
	Contour Trench Works			80 Nos.		100	8000
	Dry Stone Masonary Check Dams			4 Nos		30000	120000
	Crate Wire Check Dams			4 Nos.		30000	120000
	Rain Water Harvesting Structure for watering of plants			1		150000	150000
	Total						422000
	Total Plantation for 1100 plants/ha with 10 Year Maintenance with Soil Moisture Works						1583151
	10% increase for CA rates						158315
	Total						1741466
	Departmental charges @ 17.5%						304757
	Contingency Charges @ 5%						87073
	Total cost of CA						2133296
Rupees Twenty One Lakh Thirty Three Thousand Two Hundred and Niney Six Only							

4. Technical details:-

Technical details of compensatory afforestation scheme are as follows:-

- a) **General Details :-** Indigenous Conifer/ B/L species will be planted.
- b) **Spacing:** 3 mtr x 3 mtr.
- c) **Species:** Cedrus Deodara, pinus wallichiana, salix Spp. etc.
- d) **Plantation Method:** Artificial plantation with RCC Fencing.
- e) **Soil Moisture Conservation Works:-** Trench Works, Dry Stone Check Dams, Crate Wire Check Dams & Rain Water Harvesting Structure will be constructed.
- f) **Protection (Fencing , Watchman, People's Participation etc.)**
- g) **Proposed Monitoring Mechanism :-** Department.
- h) **Any other information :-** Nil


Divisional Forest Officer,
Kullu Forest Division, Kullu.
 Divisional Forest Officer
 Kullu Forest Division Kullu

COMPENSATORY AFFORESTATION BILL

(Norms-2024-25)


In lieu of diversion of 13.3082 hectare of forest land in favour of M/s Sai Eternal Foundation, Sai Bhawan, Sector-04, New Shimla, HP for the construction of Tundah-II HEP (24.0 MW) within the jurisdiction of Bharmour Forest Division, District Chamba, HP.

S.No.	Particulars of work	Unit	Qty	Mandays involved	Wage rate @ 400 for Non-Tribal areas
A	SURVEY, DEMARCATION & FENCING				
1.	Survey & demarcation of plantation area	Ha.	1	0.67	268
2.	Preparation/purchase of RCC fence post @ 490 per post (including GST)	No	50	0	24500
3.	Carriage of RCC fence post upto 165 cm long over a distance of 2 KM uphill/downhill	Km/ no	50	22.33	8932
4.	Preparation /digging of holes of 20x30x50 cm	No.	50	3.02	1208
5.	Fixing of RCC fence post i/c strutting	No.	50	2.39	956
6.	Carriage of B/wire over distance of 2 Kms uphill/downhill	Km/ qtl	0.75	0.74	296
7.	Stretching & fixing of B/wire in 4 strands	Rmt.	600	19.20	7680
8.	Interlacing of thorny bushes along the fence	Rmt.	150	4.09	1636
9.	Cost of B/wire	Qtl.	0.85	0	5534
					51010
	Total-A (Survey, Demarcation & Fencing)			Or say	51000
B	PLANTING:-				
1.	Bush cutting in strips (3m x 3m)	Ha.	1	7.95	3180
2.	Digging of pits 45x45x45 cm	No.	1100	69.96	27984
3.	Filing of Pits 45x45x45 cm	No.	1100	19.95	7980
4.	Carriage of plants in P. bags (uphill/downhill 2 Km)	Km/ no.	1100	27.87	11148
5.	Planting of plants raised in P/bags	No.	1100	15.99	6396
6.	Construction of inspection path	Rmt.	100	7.33	2932
7.	Cost of sign board, carriage & fixing	No.	2	0	6000
8.	Cost of Nursery Plants @ Rs.30	No.	1100	0	33000
					98620
	Total-B (Planting)			Or say	98600
	Total (A+B)				
	New Plantation				149600

1. Schedule for Plantation Programme.

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

S.N.	Particulars	Unit	Qty.	Mandays involved	Wage Rate @ Rs.400 for NT Areas
1ST YEAR MAINTENANCE (30% Beating up)					
1	Re-digging of pits 45x45x45cm	No.	330	10.49	4196
2	Filling of pits 45x45x45cm	No.	330	5.98	2392
3	Planting of plants raised in P/bags	No.	330	7.80	2574
4	Carriage of plants in P/bags	Km/No	330	8.36	3344
5	Repair of fencing	Rmt	60	0.72	288
6	Cost of Nr/plants	No.	330	0	9900
					22694
	Total			Or say	22700
2ND YEAR MAINTENANCE (20% Beating Up)					
1	Re-digging of pits 45x45x45cm	No.	220	7	2800
2	Filling of pits 45x45x45cm	No.	220	3.99	1596
3	Planting of plants raised in P/bags	No.	220	7.80	1716
4	Carriage of plants in P/bags	Km/No	220	5.57	2228
5	Repair of fencing	Rmt	60	0.72	288
6	Cost of Nr/plants	No.	220	0	6600
					15228
	Total			Or say	15200
3RD YEAR to 10th Year MAINTENANCE (10% Beating Up)					
1	Re-digging of pits 45x45x45cm	No.	110	3.50	1400
2	Filling of pits 45x45x45cm	No.	110	1.99	796
3	Planting of plants raised in P/bags	No.	110	7.80	858
4	Carriage of plants in P/bags	Km/No	110	2.79	1116
5	Repair of fencing	Rmt	60	0.72	288
6	Cost of Nr/plants	No.	110	0	3300
					7758
	Total			Or say	7800


 Divisional Forest Officer,
 Kullu Forest Division, Kullu
 Divisional Forest Officer
 Kullu Forest Division Kullu

Proposal: Diversion of 13.3082 hectare of forest land in favour of M/s Sai Eternal Foundation, Sai Bhawan, Sector-04, New Shimla, HP for the construction of Tundah-II HEP (24.0 MW) within the jurisdiction of Bharmour Forest Division, District Chamba, HP.

CERTIFICATE

It is certified that 26.62 ha of forest land identified for compensatory afforestation in Dugilag-III, Mangarh-III & Mangarh-III (Thach Padru) out of which 1.0 ha shown as Very Dense Forest (VDF) (Compartment/Survey No.52 D/16, Mangarh-III) Block/Beat: Rujag/Tiun) and 1.0 ha. shown Moderately Dense Forest (MDF) (Compartment/Survey No.52 H/4, Dugilag-III Block/Beat: Rujag/Shalang) has been verified on spot and density of vegetation is less than 20% which is suitable for raising plantation. Only few bushes/shrubs/saplings are present over the area identified for compensatory afforestation.

Date: 04.06.2025
Place: Kullu



**Divisional Forest Officer
Kullu Forest Division Kullu**

