

**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 B loot Fozal SHEP (5.0 MW)

**Location of CA Site:** Parbhi Dhar (Mandalgarh-III)

| Parameter            | Details                                                  |
|----------------------|----------------------------------------------------------|
| Latitude & Longitude | 32°4'11.313"N 77°4'11.926"E, 32°4'17.509"N 77°4'40.503"E |
| Elevation            | 2779 meters above sea level                              |
| Aspect               | North-East facing                                        |
| Soil Depth           | 280 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    | 10725                                                                                    |
| 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           | 312741   |
| Plantation                 | 2512369  |
| Maintenance                | 1522950  |
| Soil Conservation Measures | 595000   |
| Total Estimated Cost       | 4943060  |

| 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.**

**Date:** 24.11.2025

### 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 4.8639 hectare of forest land in favour of M/s Bloot Hydro Power Pvt. Ltd. for the c/o Bloot Fozal SHEP (5.0 MW) within the jurisdiction of Kullu Forest Division.

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

Area: **Parbhi Dhar** District:- **Kullu** Tehsil:- **Manali**  
Division: **Kullu** Range:- **Patlikuhal** Block/Beat:- **Mandalgarh**  
Compartment/Survey No: **53 H/4** Area to be afforested:- **9.75 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                   | 9.75        | 2026-27 | 149600           | 10%             | 164560                              | 1604460           |
| 2.                              | 1 <sup>st</sup> Year Maintenance | 9.75        | 2027-28 | 22700            | 20%             | 27240                               | 265590            |
| 3.                              | 2 <sup>nd</sup> Year Maintenance | 9.75        | 2028-29 | 15200            | 30%             | 19760                               | 192660            |
| 4.                              | 3 <sup>rd</sup> Year Maintenance | 9.75        | 2029-30 | 7800             | 40%             | 10920                               | 106470            |
| 5.                              | 4 <sup>th</sup> Year Maintenance | 9.75        | 2030-31 | 7800             | 50%             | 11700                               | 114075            |
| 6.                              | 5 <sup>th</sup> Year Maintenance | 9.75        | 2031-32 | 7800             | 60%             | 12480                               | 121680            |
| 7.                              | 6 <sup>th</sup> Year Maintenance | 9.75        | 2032-33 | 7800             | 70%             | 13260                               | 129285            |



|                                                                               |                                                            |          |         |      |      |       |                |
|-------------------------------------------------------------------------------|------------------------------------------------------------|----------|---------|------|------|-------|----------------|
| 8.                                                                            | 7 <sup>th</sup> Year Maintenance                           | 9.75     | 2033-34 | 7800 | 80%  | 14040 | 136890         |
| 9.                                                                            | 8 <sup>th</sup> Year Maintenance                           | 9.75     | 2034-35 | 7800 | 90%  | 14820 | 144495         |
| 10.                                                                           | 9 <sup>th</sup> Year Maintenance                           | 9.75     | 2035-36 | 7800 | 100% | 15600 | 152100         |
| 11.                                                                           | 10 <sup>th</sup> Year Maintenance                          | 9.75     | 2036-37 | 7800 | 110% | 16380 | 159705         |
| <b>Cost of new plantation with (1100x9.75 plants ) 10 Year Maintenance</b>    |                                                            |          |         |      |      |       | 3127410        |
| <b>10% increase for CA rates</b>                                              |                                                            |          |         |      |      |       | 312741         |
| <b>Total Cost of New Plantation</b>                                           |                                                            |          |         |      |      |       | 3440151        |
| <b>Cost of Soil Moisture Conservation Works to be carried out for CA area</b> |                                                            |          |         |      |      |       |                |
|                                                                               | Use of Fertilizers & organic matter for retaining moisture | 500 Kg   | 40      |      |      |       | 20000          |
|                                                                               | Contour Trench Works                                       | 750 Nos. | 100     |      |      |       | 75000          |
|                                                                               | 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     | 2        | 100000  |      |      |       | 200000         |
|                                                                               | <b>Total</b>                                               |          |         |      |      |       | <b>595000</b>  |
| <b>Cost of Compensatory Afforestation with SMC Works</b>                      |                                                            |          |         |      |      |       | <b>4035151</b> |
| <b>Departmental charges @ 17.5%</b>                                           |                                                            |          |         |      |      |       | <b>706151</b>  |
| <b>Contingency Charges @ 5%</b>                                               |                                                            |          |         |      |      |       | <b>201758</b>  |
| <b>Total cost of CA</b>                                                       |                                                            |          |         |      |      |       | <b>4943060</b> |
| Rupees Forty Nine Lakh Forty Three Thousand and Sixty Only                    |                                                            |          |         |      |      |       |                |

#### 4. Technical details:-

Technical details of compensatory afforestation scheme are as follows:-

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

  
Divisional Forest Officer,  
Kullu Forest Division, Kullu.

## COMPENSATORY AFFORESTATION BILL

(Norms-2024-25)

In lieu of diversion of 4.8639 hectare of forest land in favour of M/s Bloot Hydro Power Pvt. Ltd. for the c/o Bloot Fozal SHEP (5.0 MW) within the jurisdiction of Kullu Forest Division.

| S.No.    | Particulars of work                                                                 | Unit    | Qty  | Mandays involved | Wage rate @ 400 for Non-Tribal areas |
|----------|-------------------------------------------------------------------------------------|---------|------|------------------|--------------------------------------|
| <b>A</b> | <b>SURVEY, DEMARCATION &amp; FENCING</b>                                            |         |      |                  |                                      |
| 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                                 |
|          |                                                                                     |         |      |                  | <b>51010</b>                         |
|          | <b>Total-A (Survey, Demarcation &amp; Fencing)</b>                                  |         |      | <b>Or say</b>    | <b>51000</b>                         |
| <b>B</b> | <b>PLANTING:-</b>                                                                   |         |      |                  |                                      |
| 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                                |
|          |                                                                                     |         |      |                  | <b>98620</b>                         |
|          | <b>Total-B (Planting)</b>                                                           |         |      | <b>Or say</b>    | <b>98600</b>                         |
|          | <b>Total (A+B)</b>                                                                  |         |      |                  |                                      |
|          | <b>New Plantation</b>                                                               |         |      |                  | <b>149600</b>                        |



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 |
|---------------------------------------------------------------------------------|-------------------------------------|-------|------|------------------|---------------------------------|
| <b>1<sup>ST</sup> YEAR MAINTENANCE (30% Beating up)</b>                         |                                     |       |      |                  |                                 |
| 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                            |
|                                                                                 |                                     |       |      |                  | <b>22694</b>                    |
|                                                                                 | <b>Total</b>                        |       |      | <b>Or say</b>    | <b>22700</b>                    |
| <b>2<sup>ND</sup> YEAR MAINTENANCE (20% Beating Up)</b>                         |                                     |       |      |                  |                                 |
| 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                            |
|                                                                                 |                                     |       |      |                  | <b>15228</b>                    |
|                                                                                 | <b>Total</b>                        |       |      | <b>Or say</b>    | <b>15200</b>                    |
| <b>3<sup>RD</sup> YEAR to 10<sup>th</sup> Year MAINTENANCE (10% Beating Up)</b> |                                     |       |      |                  |                                 |
| 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                            |
|                                                                                 |                                     |       |      |                  | <b>7758</b>                     |
|                                                                                 | <b>Total</b>                        |       |      | <b>Or say</b>    | <b>7800</b>                     |

*Handwritten signature*

Divisional Forest Officer,  
Kullu Forest Division, Kullu



## CA Site Blood Hydro Power for the c/o of Blood Fozal HEP (5.0 MW)



Divisional Forest Officer  
Kullu Forest Division Kullu

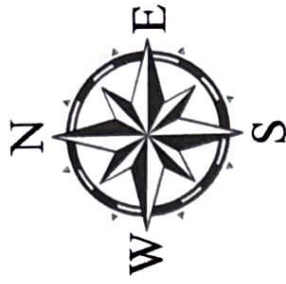
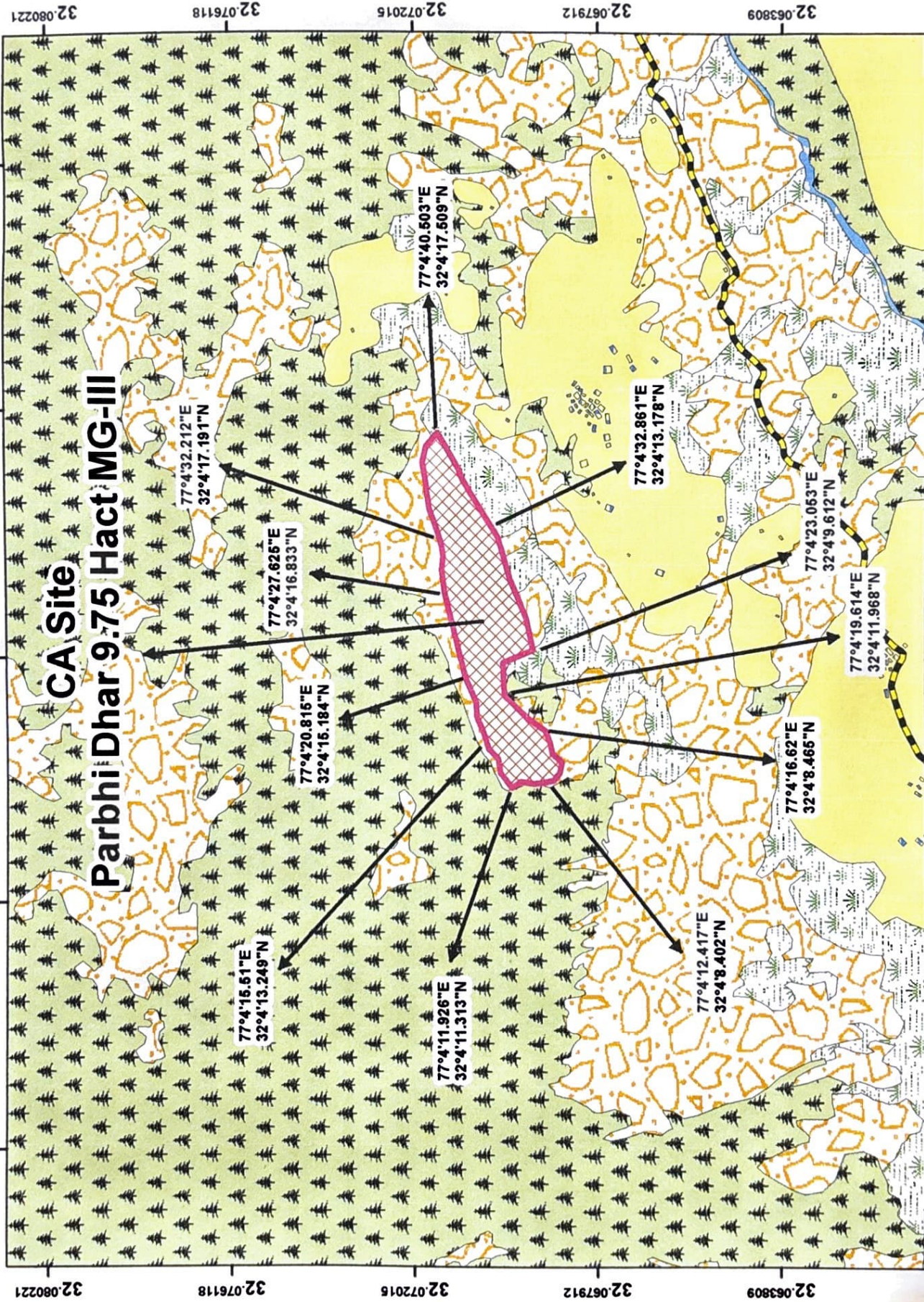
**Scale- 1:50000**  
**Topo Sheet- 53H4**



# DIGITAL LAND USE MAP

CA Site Blood Hydro Power for the c/o of Bloot Fozal HEP (5.0 MW)

77.062048 77.067472 77.072896 77.078320 77.083744



## Legend

- Existing Road
- CA Site
- Builtup
- Private Land
- Nallah
- Open Land
- Shrub
- Forest Land

*Signature*

Divisional Forest Officer  
Kullu Forest Division Kullu

77.062048 77.067472 77.072896 77.078320 77.083744







