



TANGRUNG CHIPHEN COMMUNITY FOREST MANAGEMENT PLAN

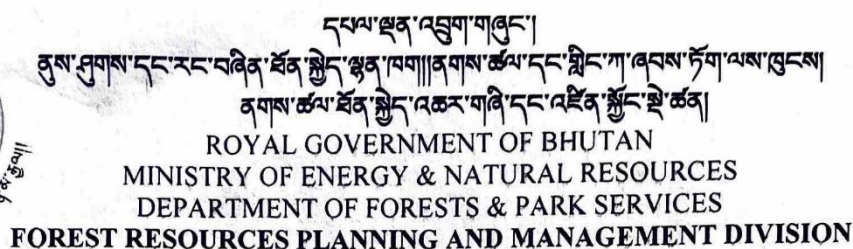


(1st Revision)



**KURTOED GEWOG
LHUENTSE DZONGKHAG**

Plan Period: 2023-2033



September 29, 2023

NOTE SHEET

Sub: Approval of Revised Community Forest Management Plans (CFMPs)

Following the completion of their 10-year management plan periods, the community forests listed in *Table 1* undertook revisions and submitted their plans for review and approval by the department. These Community Forest Management Plans (CFMPs) were developed by the respective Forest Division in collaboration with Community Forest Management Groups (CFMGs).

The development of these CFMPs has been guided by the Forest and Nature Conservation Code of Best Management Practices of Bhutan, Volume III: Sustainable Forest Management, ensuring strict adherence to its guidelines and requirements. This collaborative effort reflects the priorities and needs of the CFMGs, taking into consideration both environmental and social safeguards. The process has placed a high priority on stakeholder engagement, emphasizing transparency, accountability, and long-term success.

The revised CFMPs include objectives, prescribed management strategies, and by-laws to regulate the functioning of the CFMGs. Additionally, they contain detailed information on forest inventories, biodiversity conservation measures, resource utilization plans, benefit-sharing mechanisms, and community capacity-building strategies.

The technical assessment and review of these CFMPs were meticulously conducted by the Forest Resources Planning and Implementation Section (FRPMS). It is worth noting that the revised CFMPs strongly emphasize community participation, with a focus on promoting conservation, sustainable resource utilization, community development, and the integration of traditional knowledge with modern scientific practices.

In accordance with Section 9(4) of the Forest and Nature Conservation Act 2023, the approval for the implementation of these revised CFMPs is hereby granted, based on the recommendation of the CFO, FRPMD.

Recommended by:

(Sonam Tenzin)
Chief Forestry Officer

Approved By:

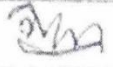
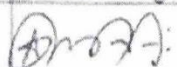

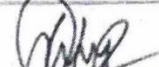
Approved By: 
(Director)

Department of Forest and Park Services


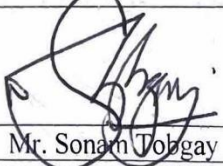
APPROVAL SHEET

Name of the Community Forest	Tangrung Chipen Community Forest
Village(s)	Gargong, Tangrung and Serzhong
Gewog	Kurtoed
Dzongkhag/Dungkhag	Lhuentse
Production area in Ha/Acre	54 Ha 59.47 Ha
Protection in Ha/Acre	1 Ha
Total Community Forest area in Ha	55 Ha 60.47 Ha
Total CFMG (Total Households)	11
Plan Period	29 th April 2023-28 th April 2033.


Prepared and submitted for an approval

	Chairman of community Forest	Gup /Mangmi of the Gewog/	Head, Social Forestry Section/Division/Park	Chief Forestry Officer of Division/Park
Signature				
Name	Tobgay	Ugyen Pelden 12/05/2023	Kerang Davon Section Head SFES, WCNP	Tshering Shendup Chief Forestry Officer Wangchuck Centennial National Park Bumthang
Date	27 th April 2023			

Reviewed and Recommended for an approval

Signature		
Name	Mr. Tsheltrim Dorji	Mr. Sonam Tobgay
Title	Forestry Officer (Focal)	Chief Forestry Officer
Division/Section	Forest Resources Planning and Implementation Section	Forest Resources Planning and Management Division

Approved by



Director

Department of Forests and Park Services

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1. ACRONYMS

AAC	Annual Allowable Cut
AWP	Annual Work Plan
CF	Community Forest
CFMC	Community Forest Management Committee
CFMG	Community Forest Management Group
CFMP	Community Forest Management Plan
Cft	Cubic foot
DoFPS	Department of Forests and Park Services
FNCRR	Forest and Nature Conservation Rules and Regulations
GT	Geog Tshogde
GIS	Geographical Information System
Ha	Hectare
M ³	Meter Cube
NWFP	Non-Wood Forest Product
ORC	Out Reach Clinic
RGoB	Royal Government of Bhutan
SRFL	State Reserved Forest Land
WCNP	Wangchuk Centennial National Park

EXECUTIVE SUMMARY

The 09 households of Tangrung Chiphen Community Forest successfully completed their first management plan. In the 2nd management plan review and planning process, among the 57 active households in Tangrung_Wawel chiwog, only 09 existing households and two new households came forward to continue managing the community forest. According to the Forestry Field Manual for community forests (2018), Chapter II, Subject Section III (e), these 11 households will manage **60.47 hectares, equivalent to 149.42 acres**, of state Reserved Forest land. The community forest is further divided into two major blocks for effective management and administration, as well as based on resource distribution.

The Ngang block spans 30.26 hectares with an average basal area of 15.89 m²/ha and the AAC of 68.59 m³ equivalent to 2422.763 cft or 60 no trees). Whereas 43.53 m³ or 1537.42 cft or 42 trees are timber trees and 25.07 m³ or 885.34 cft or 18 trees are non-timber trees. The Barphung block covers 30.22 hectares and recorded an average basal area of 10.57 m²/ha and the AAC of 41.13 m³ equivalent to 1452.72 cft or 34 no trees). Whereas 13.733 m³ or 485.046 cft or 17 trees are timber trees and 27.397 m³ or 967.674 cft or 17 trees are non-timber trees. The highest timber volume is recorded in the Ngang block with 43.53 m³, while the other block has only recorded 13.733 m³. However, a larger volume of non-timber trees has been recorded in the Barphung block with 27.397 m³ compared to the other block, which has recorded 25.07 m³.

Tree species such as Persia spp, Alnus spp, and Schima spp are abundant in the community forest; however, there are no desirable tree species suitable for house construction. An area of 2.68 hectares has been identified for protection based on the water source, and only 52.32 hectares are declared as a production forest for this community forest.

The community forest was established with the following main objectives:

1. *To conserve, protect, curb illegal activities, and manage water sources and other natural resources through enhanced participation by members.*
2. *To improve the livelihood of the community through the sustainable sale of excess timber and non-timber forest products (NWFP).*
3. *To encourage and facilitate the transfer of ownership of state forest reserved land to the community.*

In order to achieve these objectives, the CFMG (Community Forest Management Group) will carry out a work plan and silvicultural activities, including cleaning, thinning, debranching, pruning, removal of dead and deformed trees to stimulate growth and promote the widespread regeneration and improvement of the community forest's health. The resource assessment reveals that the designated community forest (CF) lacks promising timber species and that its resources are primarily intended to meet the CFMG's demands. The average basal area stands at 26.47 m²/ha.

The plan covers a ten-year period and will be subject to revision once the plan expires, following the submission of a final monitoring and evaluation report. However, minor amendments may need to be carried out or communicated to the CFMG during implementation, primarily to align with changing policies, guidelines, and field circumstances. The plan is divided into two parts: the first part deals with management activities, and the latter part addresses bylaws.

PART 1: MANAGEMENT PLAN

2. INTRODUCTION

A total of 11 households will continue to manage an area of 60.47 hectares or 149.42 acres, within the Tangrung Chiphen Community Forest. Two new members have voluntarily come forward to join the existing 9 households for the 1st management plan revision. Approximately 6% of the total households (N=57) in Tangrung, Wawel chiwog, have become registered members of the Tangrung Chiphen Community Forest. However, there are 517 people residing in the chiwog. Currently, this CF comprises 5 males and 6 females in the group.

The Tangrung Chiphen Community Forest was initially established in 2007 with 21 households, but more than 47% (10 households) resigned for various reasons. This community forest has played a significant role in improving the livelihood of the Community Forest Management Group (CFMG). Simultaneously, the CFMG has assumed certain roles and responsibilities of the forest department to protect, conserve, and manage state resources in a sustainable manner. During this revision, some inaccessible and rugged areas of the community forest were eliminated, and additional areas towards Barphung were proposed. This community forest serves as habitat to several fauna species and is also the sole water source for the entire villages of Gargong and Tangrung. In both blocks, plantation efforts will be initiated since there is limited natural regeneration within the community forest.

CF Objectives:

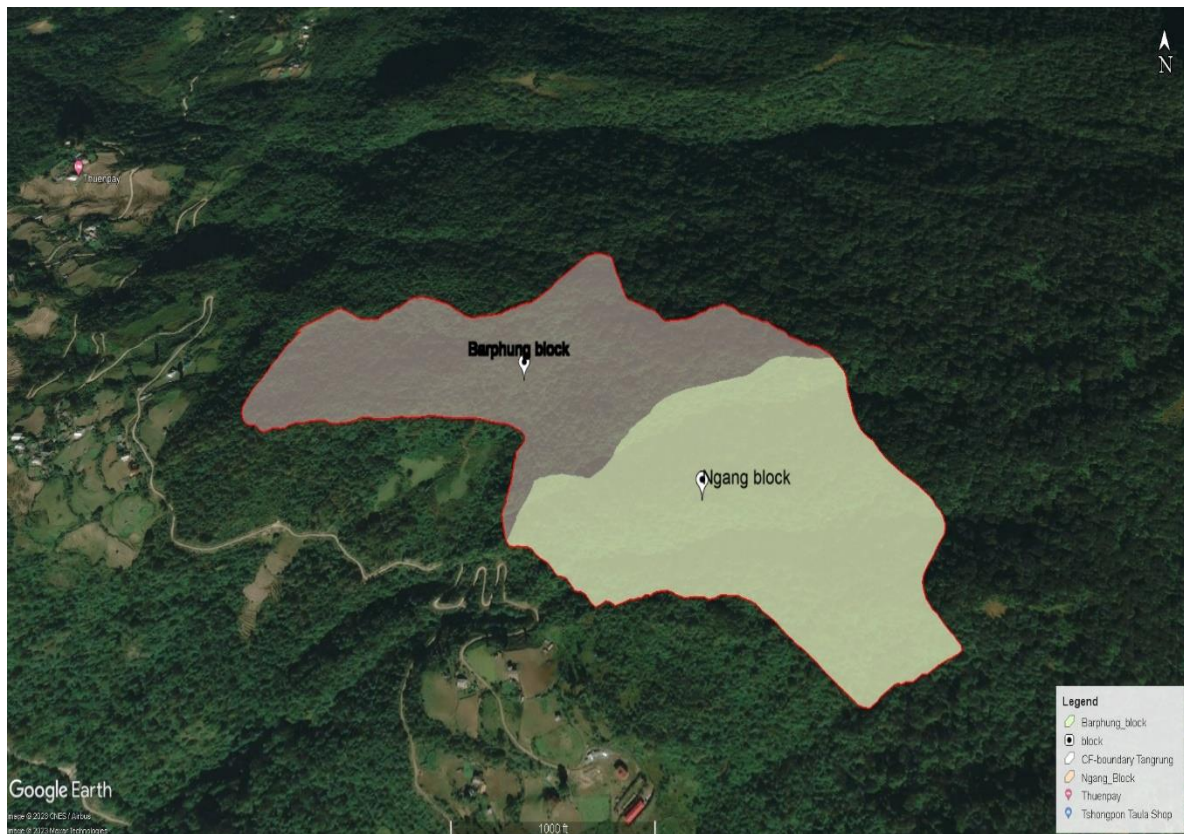
- 1. To conserve, protect, curb illegal activities, and manage water sources and other natural resources through enhanced participation by members.*
- 2. To improve the livelihood of the community through the sustainable sale of excess timber and non-wood forest products (NWFP).*
- 3. To encourage and facilitate the transfer of ownership of state forest reserved land to the community.*

Based on the current situation, 1 hectare out of the total area of 60.47 hectares is designated for protection, while the remaining 59.47 hectares are considered as production forest. The demand for CFMG resources will be met from this production forest, and resource allocation will involve adopting single-tree selection and other relevant silvicultural strategies.

Part A of the Management Plan encompasses various management aspects, including forest stock enumeration, determination of Annual Allowable Cut (AHL), and forest resource demand assessment.

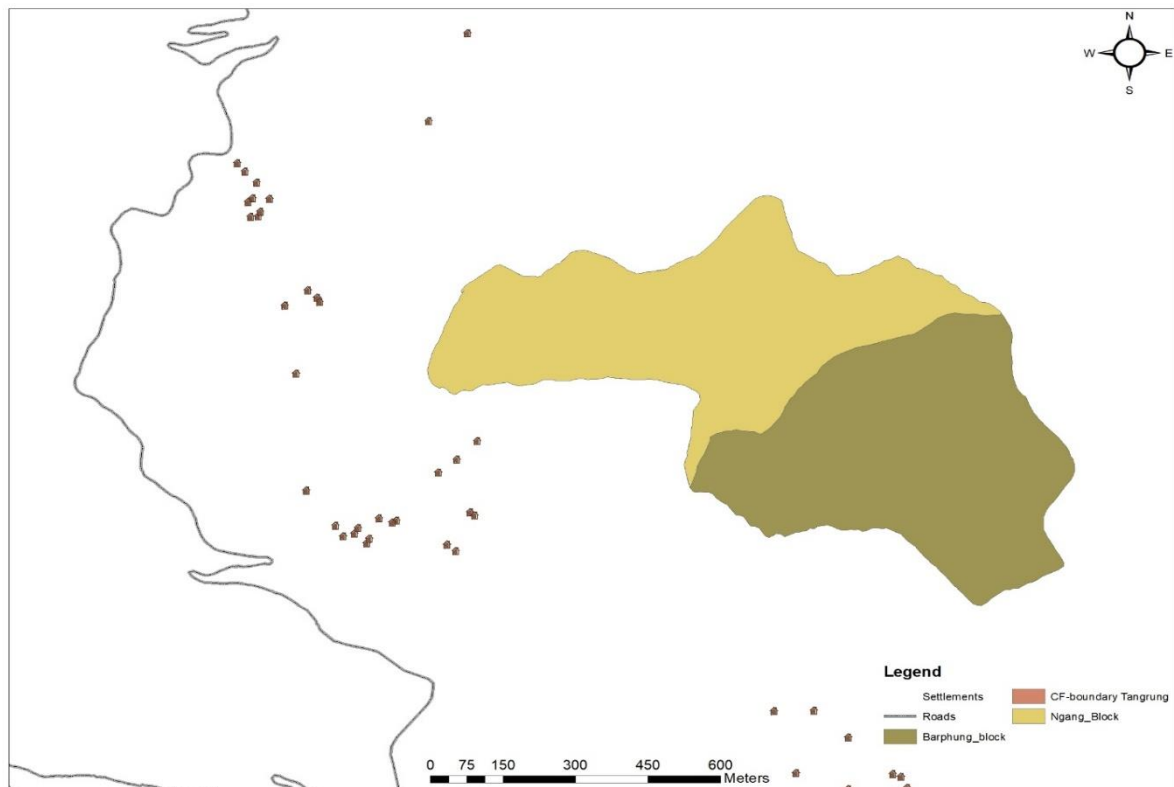
Part B covers the CFMG bylaws, which are designed to ensure good governance, fee collection, fines and penalties, and benefit-sharing arrangements.

3. COMMUNITY FOREST MAP



2.1 Google map showing the boundary of CF

2.2 GIS Land use land cover map of Ngang and Barphung block.



4. COMMUNITY FOREST BOUNDARIES

Boundaries (Direction)	Permanent features
West	Tangrung village
East	Goshopang lhakhang
South	Sabragang irrigation channel
North	Serzhong village

SOCIAL INFORMATION

Parameters	Description
Name of the villages:	Tangrung
Ethnic groups with CFMG:	Kurtoep,
Basic amenities	Lhakhang, Out reach clinic (ORC), connected with farm road, mobile network and Rural Water supply scheme (RWSS).
Total Household (HH) number:	11
Total human Population of CF area:	120
Gender Status (Male and female):	4:7
Cattle population of the CF area:	130
Main crops:	Maize, paddy, Potato and millet
Cropping pattern:	Seasonal and crop rotation
Criteria for well-being livelihood:	Landholding, cash balance, remittances, dairy
No. HH (wealthy)	9
No. of HH (medium wealthy, if so)	2
Average annual income:	Nu./year.100,000.00

5. FOREST INFORMATION

This community forest falls under mixed and cool broadleaved forest dominated by *Alnus spp*, *Schima spp* and *Lindera spp*. During 1960s, most of the current forest has thick and rich forest stock.. The land was utilized as Grazing category where slash and burn was common. The private lands and some parts of SRF (State Reserved Forest) was cultivated with maize, dry paddy and paddy.. The villagers used to construct temporary sheds and live in the area till the crops are harvested.

5.1 Forest information of Ngang block.

Format 1. Forest Resource Assessment Format (<i>Complete this format for each block</i>)	
Name of Community Forest	Tangrung Chiphen Community Forest
Name of block	Ngang
Block area	30.26 ha

Name of recorder	Dorji Wangchuk
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Forest & Habitat Type (<i>tick all those present, Refer definition below</i>)				
Forest <input checked="" type="checkbox"/>	Thicket/pole stage <input checked="" type="checkbox"/>	Shrubland <input type="checkbox"/>		
Grassland <input type="checkbox"/>	Plantation <input type="checkbox"/>	Other <input checked="" type="checkbox"/>		
Vegetation type				
Subtropical <input type="checkbox"/> forest	Chirpine forest <input type="checkbox"/>	Warm broadleaved forest <input type="checkbox"/>	Blue pine forest	<input type="checkbox"/>
Cool broadleaved forest <input checked="" type="checkbox"/>	Mixed conifer forest <input type="checkbox"/>	Fir forest <input type="checkbox"/>	Other	<input type="checkbox"/>

Forest Condition (<i>complete if the block is mainly forest</i>)	
Write the names of main tree species	
Local name	Scientific name
Tarka seng	<i>Juglans Regia</i>
Tshop	<i>Lindera spp</i>
Puyam Seng	<i>Schima spp</i>
Chhar seng	<i>Betula spp</i>

Plantation	
Is there any plantation? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Approximate height of planted trees (m)
Year planted	Is the plantation? Under stocked <input type="checkbox"/> Stocked <input type="checkbox"/> Overstocked <input type="checkbox"/>

Forest Condition -Age			
Mature <input checked="" type="checkbox"/> Main canopy of mature trees	Pole stage <input type="checkbox"/> Main canopy of pole stage trees	Shrubland <input type="checkbox"/> Main canopy of shrubs, young trees or regeneration	Any <input type="checkbox"/> No continuous canopy. Isolated trees only

Forest Condition - Canopy density (<i>tick main canopy</i>)		
Dense <input type="checkbox"/> Canopy density > 70%	Open <input checked="" type="checkbox"/> Canopy density < 70%	Very open <input type="checkbox"/> No real canopy. Isolated trees only

Forest Condition – Regeneration (<i>including coppice regrowth</i>)		
Abundant <input type="checkbox"/> Regeneration easy to find in most places	Scattered/few <input checked="" type="checkbox"/> Regeneration only in some	None <input type="checkbox"/> No regeneration
Write the names of the 3 main tree species in the regeneration		
1) <i>Alnus spp</i>	2)	3)
Regeneration: Seedlings > 30cm and < 1.3m height		

Forest Condition – Approximate density of seed trees		
High <input type="checkbox"/> > 50 seed trees per ha	Moderate <input checked="" type="checkbox"/> 10 – 50 seed trees per ha	Low <input type="checkbox"/> < 10 seed trees per ha

Block Condition – Summary (Use the forest condition class box below to get an average condition for the block)		
Poor <input type="checkbox"/>	Average <input type="checkbox"/>	Good <input checked="" type="checkbox"/> Very Good <input type="checkbox"/>
Does the main forest canopy consist of large, mature trees?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>

Open spaces (complete if there are significant open spaces in the block)	
Approximate total open space area (ha)	2 ha
Dominant vegetation type in the open space	<i>Rubus spp</i> and climbers and grass
Cause of open space e.g. grazing, fire, harvesting, etc.	Harvesting

Grazing and fodder (complete if the forest block is used for grazing or fodder)			
Grassland type			
Natural <input checked="" type="checkbox"/>	Man-made <input type="checkbox"/>	Mixture <input type="checkbox"/>	Predominantly forest <input type="checkbox"/>

Main fodder species being used (<i>list 3 only</i>)	
Local name	Scientific name
Grass	
<i>Ficus spp</i>	

Pasture quality (list the 3 dominant species in the grassland)		
Local name	Scientific name	Palatable/unpalatable
Small bamboo	<i>Chimuno Callosa</i> <i>Bambusa spp</i>	Palatable

Use pattern	Seasonal <input checked="" type="checkbox"/>	All year <input type="checkbox"/>
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Type of user	Migratory <input type="checkbox"/>	Local <input checked="" type="checkbox"/>	Both <input type="checkbox"/>
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Catchment Condition (use catchment condition class box below)	
(i) Catchment condition – soil cover	
Soil cover	Soil cover class
> 50% of the soils are covered by vegetation	high <input type="checkbox"/>
25 - 50% of the soils are covered by vegetation	moderate <input checked="" type="checkbox"/>
< 25% of the soils are covered by vegetation	low <input type="checkbox"/>
(ii) Catchment Condition - Soil type and erosivity	

Soil type (color, texture, and type)		
Erosive <input type="checkbox"/>	Non-erosive <input checked="" type="checkbox"/>	
disperses and/or breaks up in water easily		stable to water flow
(iii) Catchment Condition - Slope		
Slope (degrees)	Slope steepness class	
<10°	Gentle	<input checked="" type="checkbox"/>
10° – 30°	Moderate	<input type="checkbox"/>
> 30°	Steep	<input type="checkbox"/>
Catchment Condition – Summary (Use the catchment condition class box below to get the average condition for the block)		
Less critical <input checked="" type="checkbox"/>	Moderately critical <input type="checkbox"/>	Highly critical <input checked="" type="checkbox"/>

Fauna (List any animal or bird species seen or which are known from the block)	
Local Name	Scientific name
Shawa (Sambar)	<i>Cervus unicolor</i>
Phaw (Dhole)	<i>Cuon alpinus</i>
Dhom (Himalayan black Bear)	<i>Ursus thibetanus laniger</i>
Fha (Wild boar)	<i>Sus scrofa</i>
Biotic Pressures (tick those present)	

Fire	Common <input type="checkbox"/>	Occasional <input checked="" type="checkbox"/>	Absent <input type="checkbox"/>
Grazing	Heavy <input checked="" type="checkbox"/>	Limited <input type="checkbox"/>	Absent <input type="checkbox"/>
Fodder collection	Common <input type="checkbox"/>	Limited <input checked="" type="checkbox"/>	Absent <input type="checkbox"/>
NWFP collection (Mushroom, Rubia spp and Paris polyphyla and Fern)	Common <input checked="" type="checkbox"/>	Limited <input type="checkbox"/>	Absent <input type="checkbox"/>
Leaf litter collection	Common <input checked="" type="checkbox"/>	Limited <input type="checkbox"/>	Absent <input type="checkbox"/>
Encroachment	Common <input type="checkbox"/>	Occasional <input type="checkbox"/>	Absent <input checked="" type="checkbox"/>
Pole harvesting	Common <input type="checkbox"/>	Occasional <input checked="" type="checkbox"/>	Absent <input type="checkbox"/>
Fuelwood harvesting	Common <input type="checkbox"/>	Occasional <input checked="" type="checkbox"/>	Absent <input type="checkbox"/>
Timber harvesting	Common <input checked="" type="checkbox"/>	Occasional <input type="checkbox"/>	Absent <input type="checkbox"/>
Hunting	Common <input type="checkbox"/>	Occasional <input checked="" type="checkbox"/>	Absent <input type="checkbox"/>
Others (describe)	Illegal		

Potential Management Options <i>(list any potential management options for the CF/block)</i>	
1	Regular patrolling
2	Catchment protection
3	Plantation
4	Implement work as per AWP

5.2 Forest information of Barphung block

Format 1. Forest Resource Assessment Format <i>(Complete this format for each block)</i>	
Name of Community Forest	Tangrung Chipen Community Forest
Name of block	Barphung
Block area	30.22 Ha
Name of recorder	Dorji Wangchuk and Ugyen Chopel

Forest & Habitat Type (<i>tick all those present, Refer definition below</i>)				
Forest <input checked="" type="checkbox"/>	Thicket/pole stage <input checked="" type="checkbox"/>	Shrubland <input type="checkbox"/>		
Grassland <input type="checkbox"/>	Plantation <input type="checkbox"/>	Other <input checked="" type="checkbox"/>		
Vegetation type				
Subtropical <input type="checkbox"/> forest	Chirpine forest <input type="checkbox"/>	Warm broadleaved forest <input type="checkbox"/>	Blue pine forest	<input type="checkbox"/>
Cool broadleaved forest <input checked="" type="checkbox"/>	Mixed conifer forest <input type="checkbox"/>	Fir forest <input type="checkbox"/>	Other	<input type="checkbox"/>

Forest Condition (<i>complete if the block is mainly forest</i>)	
Write the names of main tree species	
Local name	Scientific name
Kaysengma	<i>Alnus spp</i>
Guliseng	<i>Persia spp</i>
Puyam seng	<i>Schima spp</i>
Charseng	<i>Betula spp</i>

Plantation	
Is there any plantation? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Approximate height of planted trees (m)
Year planted	Is the plantation? Under stocked <input type="checkbox"/> Stocked <input type="checkbox"/> Overstocked <input type="checkbox"/>

Forest Condition -Age			
Mature <input checked="" type="checkbox"/> Main canopy of mature trees	Pole stage <input type="checkbox"/> Main canopy of pole stage trees	Shrubland <input type="checkbox"/> Main canopy of shrubs, young trees or regeneration	Any <input type="checkbox"/> No continuous canopy. Isolated trees only

Forest Condition - Canopy density (<i>tick main canopy</i>)		
Dense <input type="checkbox"/> Canopy density > 70%	Open <input checked="" type="checkbox"/> Canopy density < 70%	Very open <input type="checkbox"/> No real canopy. Isolated trees only

Forest Condition – Regeneration (<i>including coppice regrowth</i>)		
Abundant <input type="checkbox"/> Regeneration easy to find in most places	Scattered/few <input checked="" type="checkbox"/> Regeneration only in some	None <input type="checkbox"/> No regeneration
Write the names of the 3 main tree species in the regeneration		
1) <i>Alnus spp</i>	2) <i>Persia spp</i>	3) <i>Lindera spp</i>
Regeneration: Seedlings > 30cm and < 1.3m height		

Forest Condition – Approximate density of seed trees		
High <input type="checkbox"/> > 50 seed trees per ha	Moderate <input checked="" type="checkbox"/> 10 – 50 seed trees per ha	Low <input type="checkbox"/> < 10 seed trees per ha

Block Condition – Summary (Use the forest condition class box below to get an average condition for the block)		
Poor <input type="checkbox"/>	Average <input type="checkbox"/>	Good <input checked="" type="checkbox"/> Very Good
Does the main forest canopy consist of large, mature trees?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>

Open spaces (complete if there are significant open spaces in the block)	
Approximate total open space area (ha)	1 Ha
Dominant vegetation type in the open space	<i>Rubus spp</i> , climbers and grass
Cause of open space e.g. grazing, fire, harvesting, etc.	Grazing

Grazing and fodder (complete if the forest block is used for grazing or fodder)			
Grassland type			
Natural <input checked="" type="checkbox"/>	Man-made <input type="checkbox"/>	Mixture <input type="checkbox"/>	Predominantly forest <input type="checkbox"/>

Main fodder species being used (list 3 only)	
Local name	Scientific name
Grass	
Small Bamboo	

Pasture quality (list the 3 dominant species in the grassland)		
Local name	Scientific name	Palatable/unpalatable
Small bamboo	<i>Chimuno Callosa</i> <i>Bambusa spp</i>	Palatable

Use pattern	Seasonal <input checked="" type="checkbox"/>	All year <input type="checkbox"/>
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Type of user	Migratory <input type="checkbox"/>	Local <input checked="" type="checkbox"/>	Both <input type="checkbox"/>
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Catchment Condition (use catchment condition class box below)	
(i) Catchment condition – soil cover	
Soil cover	Soil cover class
> 50% of the soils are covered by vegetation	high <input type="checkbox"/>
25 - 50% of the soils are covered by vegetation	moderate <input checked="" type="checkbox"/>
< 25% of the soils are covered by vegetation	low <input type="checkbox"/>
(ii) Catchment Condition - Soil type and erosivity	
Soil type (colour, texture and type)	

Erosive <input type="checkbox"/>	Non-erosive <input checked="" type="checkbox"/>
disperses and/or breaks up in water easily	stable to water flow
(iii) Catchment Condition - Slope	
Slope (degrees)	Slope steepness class
<10°	Gentle
10° – 30°	Moderate <input checked="" type="checkbox"/>
> 30°	Steep <input type="checkbox"/>
Catchment Condition – Summary (Use the catchment condition class box below to get the average condition for the block)	
Less critical <input type="checkbox"/>	Moderately critical <input type="checkbox"/> Highly critical <input checked="" type="checkbox"/>

<i>Fauna (List any animal or bird species seen or which are known from the block)</i>	
<i>Local Name</i>	<i>Scientific name</i>
Shawa(Sambar)	<i>Cervus unicolor</i>
Dhom (<i>Himalayan Black Bear</i>)	<i>Ursidae</i>
Phaw (<i>Dhole</i>)	<i>Cuon alpinus</i>
Pha (<i>Boar</i>)	<i>Sus scrofa</i>
Kasha (Barking Deer)	<i>Muntiacus Muntjak</i>

<i>Biotic Pressures (tick those present)</i>		
Fire	Common	Occasional
Grazing	Heavy	Limited
Fodder collection	Common	Limited
NWFP collection	Common	Limited
(Mushroom, Rubia spp and Paris polyphyla and Fern)	Common	Limited
Leaf litter collection	Common	Limited
Encroachment	Common	Limited
Pole harvesting	Common	Occasional
Fuelwood harvesting	Common	Occasional
Timber harvesting	Common	Occasional
Hunting	Common	Occasional
Others (Illegal)	Common	Occasional

<i>Potential Management Options (list any potential management options for the CF/block)</i>	
1	Regular patrolling
2	Catchment protection
3	Plantation

Forest management

6.1 Forest management procedures

Sl. No	Produce	Timber	Firewood	NWFPs
1	Main species	Betula spp and Alnus spp	Quercus spp	Paris polyphylla Rubia spp, Fern and Posgastrom spp
2	Problems	Scattered	Scattered	No proper marketing outlet/channel
3	Opportunities	<i>The timber species listed above shall be main income generation for CFMG and there shall be high timber demand from outside CFMG. Non-wood forest product such as Paris polyphylla and Rubia spp shall be considered main marketing product for CFMG. CFMG can also able to regulate the forest resources sustainably and can create conducive income generation</i>		
4	Management objectives (reflecting problems and/or opportunities)	<i>The overall management objectives to improve the livelihood of community and CFMG stands at the top since small shortfalls can be addressed adequately. Initiate to sale excess high value timber to non – CF member as per the management plan would allow CFMG to generate income. Doing so would lead to frequent patrolling of forest, which would prevent from illegal extraction. In the absence of regeneration, plantation shall be initiated to continue desired timber species.</i>		
5	Activities to achieve the objective (mark as H, M or L)	<i>The overall objectives of the community forest may be achieved after executing the following activities. Sale of excess timber Initiation of plantation Protection of catchment area Regular and timely patrolling Adoption of mother tree for desired and selected tree species.</i>		
6	Procedures	<i>The implementation of activities requires diligent and farsighted proposal to take decision as per the management plan. The ideas and knowledge to increase the scope for community forest development shall come from CFMG. Each of ideas and knowledge which you feel shall be put up for review by next level of community group</i>		
7	Responsibilities	<i>To achieve end results of managerial objectives, the lead role or decision shall be from; CFMG CF executive members Chiwog tshogpa and gewog administration Forestry officials Other relevant institutions.</i>		

Annual demand assessment.

Produce type	Drashing		Cham		Tsim		Fencing pole/dangchung/flag post		Firewood	
<i>Units</i>	M ³	Nos	M ³	Nos	M ³	Nos	M ³	Nos	M ³	Nos
<i>Annual Demand</i>	109.2	45	00	00	47.85	160	56.29	266	104.18	35
<i>Demand in 10 years</i>	1092	450	00	00	478.5	1600	562.94	2660	1041.8	350

Note: 1m³ = 35.32cft

Demand assessment for CFMG

	Qunatity in No	Unit	Purpose	No of H.H	Annually required	For 10 yrs	vol. in m3	Remarks
Drashing	18	Number	new house construction and 9 standing for renovation	3	45	45	43.68	2 H.H new construction and 1 h.h for rennovation in entire plan
Cham	0	Number	0	0	0	0		
Tsim	40	Number	other construction	4	160	160	11.96	4.H.H for other construction in entire plan
Dangchung	50	Number	other construction	4	200	200	4.28	4.H.H for other construction in entire plan
Small bamboo	10	Number	domestic use	11	110	1100		
Boulder	15	T/L	house construction	3	45	45	5.6	
Sand	15	T/L	house construction	3	45	45	5.6	
Boulder	3	T/L	other construction	4	12	12	1.5	
Sand	3	T/L	other construction	4	12	12	1.5	
fencing post	5	Number	domestic use	11	55	550	1.06	
Firewood	3	Number	domestic use	11	33	330	8.93	
firewood for donation	2	Number	religulous purpose	2	4	40	5.95	
Flag post	1	Number	domestic use	11	11	110	0.21	

Deamnd assessment table for each resources for year wise

	Plan year	1st yr	2nd yr	3rd yr	4th yr	5th yr	6th yr	7th yr	8th yr	9th yr	10th yr
Name of the Resources											
Timber for new construction											
Rennovation of house											
kitchen construction											
Toilet construction											
cowshed construction											
Flagpoles											
Firewood											
Fencing post											

A shaded part indicates the year in which the CFMG prefer to extract resources

Annual Allowable Cut of Ngang Block

AAC of Ngang Block							
Products	Dangchung	Tsim	Cham	Drashing	Pole/Post	Firewood	Total
Volume (m3)	0.70	2.83	6.98	33.03	2.32	22.74	68.59
Volume (cft)	24.55	99.80	246.54	1166.53	82.10	803.25	2422.76
No.of Trees	8	9	10	14	8	9	60
10 Years AAC							
Volume (m3)	6.95	28.26	69.80	330.26	23.24	227.41	685.95
Volume (cft)	245.51	997.98	2465.36	11665.35	820.97	8032.46	24227.67
No.of Trees	81	94	101	141	83	94	595

Annual Allowable Cut of Barphung Block

AAC of Barphung Block							
Products	Dangchung	Tsim	Cham	Drashing	Pole/Post	Firewood	Total
Volume (m3)	0.48	1.28	2.39	9.59	1.56	25.84	41.13
Volume (cft)	16.79	45.05	84.52	338.69	54.93	912.75	1452.72
No.of Trees	6	4	3	3	10	7	34
10 Years AAC							
Volume (m3)	4.75	12.75	23.93	95.89	15.55	258.42	411.30
Volume (cft)	167.89	450.45	845.22	3386.91	549.26	9127.49	14527.21
No.of Trees	55	43	35	34	100	69	337

6. OVERALL AAC OF THE CF

Total AAC of Tangrung CF							
Products	Dangchung	Tsim	Cham	Drashing	Pole/Post	Firewood	Total
Volume (m3)	1.17	4.10	9.37	42.62	3.88	48.58	109.72
Volume (cft)	41.34	144.84	331.06	1505.23	137.02	1715.99	3875.48
No.of Trees	14	14	14	18	18	16	93
10 Years AAC							
Volume (m3)	11.704378	41.01	93.731	426.17	38.79	485.84	1097.249
Volume (cft)	413.39864	1448.43	3310.6	15052	1370	17159.94	38754.83
No.of Trees	137	137	136	176	183	163	932

Note: Pole/post=D/Chung and Tsim size of N-Trees

Firewood=Drashing & Cham size of N-Trees

****20% of total production area is reduced considering some protection or unproductive area and errors in data calculation. Therefore, net production area used for calculation of AAC is 80% of 60.47 ha i.e 48.376 ha. ****

7. SUPPLY AND DEMAND COMPARISON IN 10 YEARS (M³).

Products	Drashing		Cham		Tsim		Dangchung /Posts/Poles		Firewood	
	m³	No	m³	No	m³	No	m³	No	m³	No
AAC from CF	42.62	18	9.37	14	4.1	14	5.05	32	48.58	16.00
Annual Demand	109.2	45			47.85	160	56.29	266	104.2	35.00
Annual Difference	-66.58	-27.00	9.37	14.00	-43.75	-146.00	-51.24	-233.99	55.60	-19.00
Difference for 10years	-665.832	-270	93.7	140	-437.5	-1460	-512.40	-2339.91	-556	-190
Remarks	<i>Short</i>	<i>Short</i>	<i>Short</i>	<i>Short</i>	<i>Short</i>	<i>Short</i>	<i>Short</i>	<i>Short</i>	<i>Short</i>	<i>Short</i>

Note. Tsim and dangchung may adjust from cham or drashing.

8. PARTICIPATORY ENVIRONMENTAL ASSESSMENT INCLUDING PROCEDURES TO ADDRESS NEGATIVE ENVIRONMENTAL EFFECTS

Activity proposed in CFMP	Potential Environmental Effects				Potential Socio-Economic Effects			
	Soil	Water	Wild animals	Plants	Traditional forest issues	Cultural and religious values	Local employment	Local benefits from forest produce
Cleaning and improvement felling	++	--	--	+++	-	0	++	+++
Thinning	+	--	-	+++	--	0	++	+++
Timber harvesting	--	--	--	-	--	-	++	+++
Boundary clearing and demarcation	-	-	-	-	++	0	+	+
Conduct patrol	0	+	++	++	+	0	0	++
Plantation	+++	+++	++	++	0	0	++	++
Cordonning of catchment and water sources	+++	+++	+++	+++	0	0	0	++

+++ indicates Positive effect

-- indicates Negative effect

0 indicates No effect

10.1 Address potential Negative effects

Activity	Procedure
Timber harvesting	Felling directions should be considered so that regenerations are not damaged and disturbed Silviculture considerations will be well taken of especially while marking. Avoid felling within the buffer and water sources and other catchment.
Construction of forest road	Avoid felling of trees in marshy land (wet land and if the proposal to construct forest road for better market and extraction, the survey to be ensured in the least trees.
Clearing of CF boundary	Avoid felling of bigger sized timber and on steep slopes. Blazing of trees should be avoided as far as possible.
Cleaning and improvement felling	Avoid felling trees in religious significant area and maintain buffer along the farm roads.

9. CLIMATE HAZARD ASSESSMENT

	Landslide	Forest fire	Drought	Animal disease	Reduce crop yields	Flood
Landslide	X	Forest fire	Landslide	Animal disease	Landslide	Landslide
Forest fire		X	Forest fire	Forest fire	Forest fire	Forest fire
Drought			X	Animal disease	Reduce crop yields	Drought
Animal disease				X	Animal disease	Animal disease
Reduce crop yields					X	Reduce crop yields
Flood						X

Result: Forest fire – 5 (1st), Animal disease-4 (2nd), Landslide – 3 (3rd), Reduce crop yields-2 (4th), Drought-1 (5th) and Flood – 0 (6th).

10. FOREST PRODUCE PREFERENCE RANKING

Species Local name ↓	Uses →	Drashing	Cham	Fencing post	Firewood
<i>Khuchiseng (Juglans Regia)</i>	<i>Preference</i>	xxxxx	xxxxx	xx	xx
	<i>Availability</i>	oo	o	o	o
<i>Praguliseng (Persia spp)</i>	<i>Preference</i>	xxx	xx	xx	-
	<i>Availability</i>	ooo	oooo	oooo	oooo
<i>Tshop (Lindera spp)</i>	<i>Preference</i>	xx	xx	xx	xx
	<i>Availability</i>	ooo	ooo	ooo	ooo
<i>Kesengma (Alnus Nepalensis)</i>	<i>Preference</i>	xxx	xxx	xx	-
	<i>Availability</i>	oooo	ooo	ooo	oooo
<i>Erythrina spp</i>	<i>Preference</i>	-	-	-	-
	<i>Availability</i>	ooo	ooo	ooo	ooo
<i>Puyam (Schima spp)</i>	<i>Preference</i>	xxx	xxx	xxx	xxx
	<i>Availability</i>	ooo	ooo	ooo	ooo
<i>Peseng (Quercus spp)</i>	<i>Preference</i>	NP	NP	xx	xxxxx
	<i>Availability</i>	ooo	ooo	ooo	ooo

xxxxx = Highly preferred xxx = Moderately preferred xx = Little preferred - = Not preferred
 ooooo = Abundantly available ooo = Moderately available oo = Little available - = Not available

11. MONITORING PLANS (FOREST RESOURCE MONITORING PLAN, SOCIAL AND INSTITUTIONAL MONITORING PLAN)

Objective	Indicator	How it will be monitored	Responsibility	Comments
Improve current forest stand, protect from illegal activities and manage forest sustainably.	<ul style="list-style-type: none"> Area of CF cleaned through sanitation works and thinning Incidences of illegal activities Numbers of trees marked/felled Basal area and forest stock 	<ul style="list-style-type: none"> Annual monitoring formats supervise during cleaning Regular patrolling Annual monitoring format and maintain data while marking and final evaluation. 	Forest Officer and CFMG executive members	Ranger will do regular monitoring and overall data will be collected during annual monitoring conducted at the end of December every year
To share forest resources on equitable basis among the CFMG members	<ul style="list-style-type: none"> Number of timber harvested or volume of timber harvested Houses constructed and renovated. 	<ul style="list-style-type: none"> Annual monitoring format. Marking and passing Annual monitoring and physical observations. 	Forest Officer and CFMG executive members.	Invite CFO wherever necessary. Marking and passing will be done as per provision of FNCRR, 2017.
To conserve water sources and its catchment and ensure sustainable water supply	<ul style="list-style-type: none"> Water flow rate Area cordoned and improvement of site condition 	<ul style="list-style-type: none"> Measure flow rate during lean and peak season on annual basis. Canopy density 	CFMG representative and Forest Officer	Use container and stop watch method. Water discharge method
Promote income generating activities	<ul style="list-style-type: none"> Income earned from selling excess timber Income from tourists 	<ul style="list-style-type: none"> Volume of timber sold from 2nd year and annual monitoring format. 	CFMG representative and Forest Officer and In-charge of Range Office	CFO should sanction approval before selling surplus timber.
Ensure good governance and improve social cohesion and cooperation	<ul style="list-style-type: none"> Quality of records maintained. Trainings provided. Conflicts 	<ul style="list-style-type: none"> Crosscheck records books and accounts. Annual monitoring Mid-term reviews 	CFMG representative and Forest Officer and In-charge of Range Office	Invite CFO & GT Chairperson during 1 st year and 9 th year.

12. ANNUAL WORK PLAN (AWP)

The CFMG has come up with the various activities that will be implemented in the CF to improve the forest condition for sustainable utilization of forest products. After the management plan is formally approved by the Department of Forest and Park Services (DoFPS), the CFMG will plan and implement the activities of each year based on the activity procedures and responsibilities that were laid above. Plan preparation for each year work plan would be discussed and endorsed in the CFMG general meeting and a copy of work plan should be made available to the concern forestry officials.

Location	Activity	Year										Responsibility
		1	2	3	4	5	6	7	8	9	10	
Block I and Block II	Cleaning and improvement felling											CFMG members and Ranger
	Thinning											CFMG and Ranger
	Timber harvesting											Firewood and timber, applicants, CF executive & Ranger
	Boundary clearing and demarcation											CFMG & Ranger
	Conduct patrol											3 persons a month
	Submit and approve applications for timber allotment											Chairman, CFMG Executives and Applicants
	Cordoning of catchment and water sources											CFMG and Chairman
	Sale surplus timber											As per timber marketing and by laws
	Construction of forest road for better accessibility											GT, Chairman, Ranger and CFMG members
	Capacity building											WCNP and Gewog Administration.
	Plantation											Ranger and CFMG and Gewog
	Surveying of diseased trees											Ranger and CFMG
	Exchange program to successful CFs and most promising groups											Ranger, CFMG, Gewog and WCNP

PART II: CFMG BY-LAWS

Name of community forest: **Tangrung Chiphen Community Forest**

13. MEMBERSHIP ARRANGEMENTS

The residents and public of Tangrung _Wawel and Kurtoed gewog holding Gung and Thram shall be eligible as the member of Tangrung Chiphen Community Forest. 11 households who joined during the initial establishment shall be the original members. The members will contribute Nu.200/- as annual membership fees.

1.1 New membership

New member holding Mitse and Gung from Tangrung_Wawel and villages under Kurtoed gewog will be eligible as new member and should fulfill the following conditions:

1. He or she must submit complete set of application to chairperson of the CF
2. Chairperson of CF will then discuss with other executive members or CFMG members to verify application(s). The endorsement or rejection of his or her membership will then be decided by the strength of application reviewed by chairperson.
3. Once notified he or she must submit HoH, Thram holder and CID copy (ies) to secretary for record.
4. On the date of declaring, as new member of CF he or she is bound to follow CF management plan and By Laws.

He/she shall bear the cost of labors contributed by the existing members @ Nu. 500/- per day along with membership fees.

1.2 Resignation

Any person wishing/willing to withdraw from the CFMG shall be permitted with the following conditions;

1. Any member who is incapable of participating in the CF activities shall be given due consideration of CF benefits to persons with old age, disabled, sicknesses without requiring to resign from CFMG. However, if the member wishes to resign, he/she shall be allowed to resign with 4% benefits to individual.
2. Member(s) who resigns due to loss of interest shall be approved without any benefits.
3. If a members who is away from the village and resigns due to certain circumstances he/she will be considered with condition that he/she has up-to-date contributions, 2% of the individual share will be incentivized.

4. If he/she deliberately resigns after receiving timber benefits, he/she will have to pay the commercial rate of royalty calculated in cubic feet basis of the timber allotted to him/her. The money shall be deposited in the CFMG common account. In addition, Chairperson will submit report to Chief Forestry Officer about the timber allotted and that the Kidu timber allotment from SRF shall be suspended till further notice.

14. CF MANAGEMENT COMMITTEE FORMATION

The following will be the management committee members nominated during the CF management planning:

- Chairperson
- Secretary
- Treasurer
- Resoup

The following criteria will be considered to be eligible for CFMG Management Committee:

- Should be the member of CFMG.
- Be literate
- Be accountable and transparent.
- Be punctual, dedicated, sincere, initiative, forwarding taking and cooperative.

The election will be done based on the the unanimous decision after convening a general meeting. Voting system will be applied if decision making could not be concluded during the meeting.

2.1 Procedures for Leaving the Committee

- Conduct CFMG general meeting and approve for leaving the committee based on the agreement of $\frac{3}{4}$ of the total members. Nominal incentives will be provided for his/her dedicated service to the CFMG.
- A sum of Nu 300.00 each shall provide to committee members and members on duty attending group work from group saving such as marking and patrolling. And any other works designed for CF within locality.
- If the members has to be terminated due to corrupt practices and mis-use of power, then the individual should compensate the value related to monetary case and if related to mis-use of power, he/she will be terminated immediately without any benefits.

15. 3. TERMS OF REFERENCE FOR CF MANAGEMENT COMMITTEE

- The power to approve timber allotment on equitable basis shall in the hand of CFMG Management Committee.
- Conduct annual meeting and maintain minutes of meeting.
- Resolve conflicts within member and the outsiders. If beyond shall refer further office.

- Present accounts during the general meeting.
- Request Forest Officers, CFO for technical support (eg. Plantations, silviculture training and books/record keeping trainings).
- Request CFO, CF Networking Group to provide support for marketing the forestry products.
- Provide clearances for developmental activities that might happen in the CF.
- Participate and support during the annual monitoring, mid-term reviews and annual evaluations exercise
- Impose fines and penalties to the offenders.
- Plan to request Forest Officer during marking of timber/firewood.

The tenure for management committee will be as follows:

Chairperson	5 years
Secretary	5 years
Treasurer	5 years
Resoup	3 years

Following nominal incentives will be provided to the Executive Members/Committee /member while on duty out of their village.

Designation	Incentive per day (Nu.)	Remarks
Chairperson	400.00	Such for meeting, training, workshop etc. if they are not provided any incentives or DSA by Government institution
Secretary		
Treasurer		
Resoup		

The following are the CF Executive member nominated by the CFMG members on unanimous decisions and agreement:

Name	Designation	Village
Tobgay	Chairperson	Gargong
Tshering Chopel	Secretary	Tangrung
Tshering Peldon	Treasurer	Serzhong
Tandinla	Resoup	Tangrung

3.1 Terms of Reference for chairperson

- Coordinates overall CF management.
- Provide clearances during the developmental activities in CF.
- Conduct meetings.
- Seek support from the government for development purposes of CF.
- Attend meetings related to CF management both within and outside dzongkhag.
- Manage and mediate conflicts (member and outsider)
- Approve timber allotment.

3.2 Terms of reference for Secretary

- Officiate Chairperson during his absence.
- Maintain minutes of meeting.
- Maintain labor attendance register.
- Attend and report official correspondences.
- Issue collection permits.

3.3 Terms of reference of for Treasurer

- Maintain books of accounts.
- Open joint account of the Community Forest Management Group.
- Collect annual fees and deposit in the common account.
- Maintain cash transactions of the CFMG.
- Present accounts to the CFMG during annual meetings.

3.4 Terms of reference of for Resoops (Patrolling group)

- Patrol once a month.
- Submit report to Chairperson by next day of the patrol day

3.5 Roles and Responsibilities of CFMG

- Attend meetings on call by Chairperson
- Contribute labor during the developmental activity in CF.
- Cooperate management committee in any activities related to CF management.
- Conduct auditing of CF Management Committee and accounts.
- Report illegal activities inside the CF.
- Report on time during the meeting, works and trainings.

16. 4. FEES

The CFMG decided and came up fee as prescribed in tabulated below;

Sl. No.	Forest Products/Membership fees	Procedures	Fees (Nu)
1	Membership fee	Will be collected on annual basis	200.00
2	Drashing	18 drashing for new construction, 9 for renovation. A truckload of firewood shall be donated to Goshopang and Serzhong Lhakhang when it is performing rituals.	30.00 each for Drashing sized timber and to sale excess timber it should be in log or sawn form either. The rate should be 10% below the NRPC
3	Cham	60 for construction	Nu. 50.00 each for cham sized timber
4	Firewood	3 standing tree which are deformed shall be allotted for firewood.	Nu. 30/- for member
5	Fencing	5 standing trees per member on	Nu. 5/- for the member

	poles/Tsim/Dangchung	annual basis (6 feet). 40 tsim and 50 dangchung shall allot for other construction for each household. In case if there is excess timber,a drashing size timber may be allotted equivalent to 40 tsim and 50 dangchung. 1 number of flag pole shall allot to CFMG annually	5 % down from the NRPC rate for outsiders.
6	Mushroom	Permit should be obtained and outsiders are not allowed.	Nu. 150/- for domestic consumption and Nu. 500/- for commercial purpose.
7	Leaf mould	Free of permit for the member	Free for members. Working document will be developed for commercialization in future.
8	Fees for road usage	Working document or guideline will be developed in future if felt necessary.	Rate to be fixed
9	Ferns and Elastroma spp	Free for member	Guidelines will be developed for commercial purposes.
10	A truckload of firewood and 20 flagpoles shall be contributed levying the permit and but without royalty to the family of death case as part of incentives.		
11	Small bamboo may allot from state forest reserved land since there are no availability of this resources to meet the demand.		
12	Both boulders and sand resources are may have to allot from state reserved forest land since there are no available resources in the CF..		

4.1 Fines and penalties

Timber Products/offences	CF members	Non-CF members
	Fines/penalty	Fines/penalty
Illegal felling/extraction of Timber (Drashing/Cham)	Impose fine @ Nu. 40/- per cft and timber will be seized. Compensation as per fair market value.	Impose fine @ Nu. 100/- per cft and timber will be seized and can release upon payment of compensation. Compensation at fair market value.
Illegal felling/extraction of Firewood	Fine of Nu.300/- per m ³ and product will be handed over to the offender upon realizing the compensation at fair market value.	Fine of Nu.600/- per m ³ and product will be seized or shall release once compensation is realized at fair market value.
Illegal collection for commercialization of mushroom.	Fine of Nu.500/- per kg and product will handed over to the offender upon realization of	Fine of Nu.1000/- per kg and product will be seized or shall release upon payment of

	compensation at fair market value.	compensation at fair market value.
Not able to extract timber/firewood within stipulated time.	Three months' time extension will be allowed. If owner couldn't extract within the extended period, the CFMG will conduct the meeting and take appropriate actions. The remaining timber shall remain as the property of the group.	
Absent from meeting	1 st time, Nu.300/- 2 nd time, Nu.600/- 3 rd time, Nu.900/- Repeated, Nu. 1000/- and issue warning letter for termination.	
Absent from work	1 st time, Nu.500/- 2 nd time, Nu.1000/- 3 rd time, Nu.1500/- Repeated, Nu. 1800/- and issue warning letter for termination.	
Grazing inside plantation area	Nu.5/- per cattle	50/- per cattle for non-CF member
Non-compliance of Management Plan	Will deal as per Department's power	Will deal as per Department's power
Poaching	Forward the case to Nearest Forest Office and will be dealt as per FNCRR, 2023	Forward the case to Nearest Forest Office and will be dealt as per FNCRR, 2023
Forest Fire	Forward the case to Nearest Forest Office and will be dealt as per FNCRR, 2023	Forward the case to Nearest Forest Office and will be dealt as per FNCRR, 2023
Leaving lops and tops that might cause threat to forest health	Fine of Nu. 20/- per cft and lops and tops will be pooled in a designated place. Compensation at fair market value	Fine of Nu 40 per cft and realize the compensation at fair market value.
Illegal collection of boulders and sand	Fine of Nu 200 per m ³ and compensation at fair market value or product may get seized.	Fine of Nu 600 per m ³ and realize the fair market value or product may get seized.
Illegal collection of small bamboo.	Fine of Nu 10 per piece and realize compensation at fair market value or product may get seized.	Fine of Nu 20 per piece and realize compensation at fair market value or product may get seized.
Any illegal collection of unlisted products.	As per FNCRR 2023	As per FNCRR 2023

Note: For all the illegal activities and violation of activities, pertaining to activities not in the community forest shall be deal as per the respective chapter of Forest Nature Conservation Rules and Regulation 2020/23 (FNCRR 2023).

4.2 Commercial selling rates.

Sl. No.	Forest Products	Rates
1	Drashing or timber (log or sawn form)	10% lower than NRPC/NRDCL rate and allowed only in log or sawn form for B class and 10 % lower than NRDCL rate only allowed in log and sawn form for special class. All exclusive of charges.
2	Cham sized timber	
3	Fencing poles	20% lower than NRDCL rate excusive of labour charges and felling.
4	Firewood	2000 per truckload exclusive of all the charges.
5	Mushroom	500 per kg.
7	Leaf mould	200 per bag
9	Boulders and associated products	3500 truckloads
10	Ferns and Elastroma spp	100r bundles.

4.3 MANAGING CFMG FUND AND CREDIT

The following are the possible source of income;

- Membership fee
- Fines and penalties
- Sale of Timber
- Sale of NWFPs

The joint account shall be opened with Bhutan Development Bank Limited (BDBL) established in Dzongkhag administration Lhuentse.. Any financial transactions should be authenticated by joint signatory with minutes of meeting endorsed by CF management committee. Cash balance of more than Nu. 1000/- (One Thousand) should be deposited in the bank. The treasurer will request for a cheque book from BDBL to ensure convinient payments.

The CFMG will incur expenses for the following activities:

- Refreshment during meeting and developmental works.
- Semso during disaster.
- Road maintenances.
- Incur on procurement of office equipment such as seal, files, and other stationaries.
- Disburse loan by maintaining bank balance of not less than Nu. 30,000/- for the members.
- Contributions during grand national celebrations to Gewog Administration.

4.4 CF FUND UTILIZATION AREAS

Areas where CFMG funds can be utilized;

<i>Areas of fund use</i>	<i>Limit (%)</i>
<i>CF development activities (CF review, nursery creation, plantation, thinning, cleaning, salvage operation, boundary demarcation, fire line creation, etc.</i>	<i>Not less than 25%</i>
<i>CFMG enhancement (loan, capacity building, study visits, meeting, workshops, net-working, visitors in CF, income generation, enterprise development, etc.).</i>	<i>Not more than 50%</i>
<i>Reserved fund in the bank (security deposit)</i>	<i>Not less than 5 %</i>

5.1 Benefit Sharing Mechanism

- The forest resources shall be allotted on a equitable basis.
- The timber shall be retained if annual requirement is null.
- When the accumulated amount is high, sharing cash and materials will be shared among them.
- Loaning at the rate 5% per annum for CFMG and 10% per annum to non-CF CFMG.
- Due consideration of timber resources shall be given to the poor and disadvantaged individuals.
- A truck load of firewood each shall be donated to Serzhong and Goshopang lhakhang annually or case by case.

17. MEETINGS

Committee meeting shall be convened on half yearly basis. During the meeting, following agenda will be discussed and endorsed;

- Verification, approval and endorsement of timber allotment.
- Review CF management progress.
- Annual work planning.
- Finalise time frame for membership fee collection.
- The minutes of meeting shall be maintained accordingly for informing the CFMG members during the general meeting.
- Any agenda not endorsed during the committee meeting shall be discussed during the general meeting.

6.1 General Meeting

CFMG will convene general meeting on annual basis during the month of January.

During the meeting the following agenda will be discussed by the CFMG members;

- Presentation of accounts.
- Discussed the pending agenda of the CF Management committee meeting
- Work progress of CF
- Annual work planning
- Other issues related to CF management

- Conflicts within members and outsiders
- The discussion will be endorsed and minutes of meeting will be maintained accordingly.

18. CONFLICT MANAGEMENT

Any conflicts arising within and outside CFMG will be reported to the Chairperson for the facilitation and decision making. If the conflicts could not be resolved by the Chairperson the case shall be reported to Chiwog Tshogpa for the case settlement. Further, if the conflict escalates, the case shall be forwarded to Gup, CFO and District court accordingly.

19. AMENDMENT OF CFMP AND BY-LAWS

Any amendments pertaining to unforeseen clauses will be amended in consultation with Forest Officer based on $\frac{2}{3}$ rd majority and can be incorporated in the management plan.

20. POWER OF DEPARTMENT

Department is fully empowered to take action with regard to both forestry and other developmental activities in part or whole of the Community Forests. In addition, the Department is specifically empowered to:

1. Take action against violators of the Act, Rules or Management Plan, regardless of whether requested by the CFMG or not.
2. Inspect, monitor, review the records and otherwise supervise the activities of the CFMG, and take action (including cancellation/suspension of the CFMG's certificate, where warranted under these Rules) against the CFMG or any of its members who may be acting in violation of the provisions of the Management Plan or any provisions of the FNCRR, 2017.
3. Establish record-keeping and financial reporting obligations.

CF member list

Annexure I: CF members.

Sl No	Name	CID No	Address	Thump impression
1	Lhenzom	10604001000	Serzhong	
2	Chengamo	10604001031	Serzhong	
3	Tshering Peldon	10604001065	Serzhong	
4	Thinley	10604001023	Serzhong	
5	Sonam Wangmo	10604001841	Thuenpey	
6	Tobgay	10604000423	Gargong	
7	Sonam Chophel	10604000460	Gargong	
8	Tandinla	10604001705	Tangrung	
9	Tshering Deki	10604000438	Tangrung	
10	Peldon	10604001672	Tangrung	
11	Tshering Chophel	10604001702	Tangrung	

Stand Stock Tables

STAND & STOCK TABLE SHEET 1 - NUMBER OF TREES												
1. Name of CF		Tangrung Chiphen CF Production Area						30.26 Ha				
2. Block Name		Ngang										
3. No of sample Plots		Net Production Area						24.21 Ha		(80% of production area)		
4. estimated parameter : Average Number of trees Per Ha.												
Dbh class (cm)												
Species group	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	total	%
Juglans Regia T	3.68	0.65	3.27	0.55							8.14	
Schima Spp T	8.18	5.27	10.00	4.18	3.45	1.64	0.91	1.09			34.73	
Lindera spp (T)	1.09	5.09	8.18	4.91	1.45	3.82	1.09	1.64			27.27	
Quercus spp (T0	1.09	3.27	5.27								9.64	
Persia spp (T)	10.00	11.82	10.18	10.18	8.91						51.09	
Acer spp (T)	0.18	0.18		1.09		0.91	0.18	0.18			2.73	
Alnus spp (T)	10.00	10.18	8.18	4.91	4.18	3.27	1.09	0.55	0.18		42.55	
Betula spp (T)	2.73	6.36	0.73	2.00	0.36	0.55	0.73	0.18			13.64	
Totl Timber tree	36.95	42.83	45.82	27.82	18.36	10.18	4.00	3.64	0.18		189.78	
AAC (No.of Trees)	8	9	10	6	4	2	1	1	0		42	
Schima spp (N)	1.64	3.09	3.64	1.45	2.73						12.55	
Lyonia spp (N)	4.55	3.68	0.54	0.22							8.98	
Quercus spp (N)	3.64	2.55	3.64	5.45	2.73						18.00	
Persia spp (N)	3.82	6.18	3.09	1.09	2.36	1.45	0.36	0.18			18.55	
Acer spp (N)	0.18		1.09	0.55		0.91	0.55				3.27	
Alnus spp (N)	3.45	5.09	4.18	3.09	3.45						19.27	
total Non Timber	17.27	20.58	16.18	11.85	11.27	2.36	0.91	0.18			80.61	
AAC (No.of Trees)	4	5	4	3	2	1	0	0			18	

Note: Pole/post=D/Chung and Tsim size of N-Trees

Firewood=Drashing & Cham size of N-Trees

****20% of total production area is reduced considering some protection or unproductive area and errors in data calculation. Therefore, net production area used for calculation of AAC is 80% of 30.26 ha i.e 24.21 ha. ****

STAND & STOCK TABLE SHEET 2 - BASAL AREA														
1. Name of CF	Tangrung Chiphen Community Forest								Production Are		30.26 Ha			
2. Block Name	Ngang													
3. No of sample Plots									Net Production Area		24.208 Ha		(80% of production area)	
4. estimated parameter	Average Basal area per Ha													
Dbh class (cm)														
Species group	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120+	total	%
Juglans Regia T	0.06	0.03	0.30	0.09									0.48	
Schima Spp T	0.14	0.25	0.93	0.65	0.80	0.54	0.40	0.61					4.32	
Lindera spp (T)	0.02	0.24	0.76	0.77	0.34	1.25	0.48	0.92					4.77	
Quercus spp (T0	0.05	0.30	0.82										1.18	
Persia spp (T)	0.17	0.56	0.95	1.59	2.08								5.34	
Acer spp (T)	0.00	0.01		0.17		0.30	0.08	0.10					0.66	
Alnus spp (T)	0.17	0.48	0.76	0.77	0.97	1.07	0.48	0.31	0.13				5.13	
Betula spp (T)	0.05	0.30	0.07	0.31	0.08	0.18	0.32	0.10					1.41	
total Timber	0.66	2.16	4.59	4.34	4.28	3.33	1.74	2.04	0.13				23.28	
Schima spp (N)	0.03	0.15	0.34	0.23	0.64								1.37	
Lyonia spp (N)	0.08	0.17	0.05	0.03									0.33	
Quercus spp (N)	0.06	0.12	0.34	0.85	0.64								2.01	
Persia spp (N)	0.06	0.29	0.29	0.17	0.55	0.48	0.16	0.10					2.10	
Acer spp (N)	0.00		0.10	0.09		0.30	0.24							
Alnus spp (N)	0.06	0.24	0.39	0.48	0.80								1.97	
total N-Timber	0.29	0.97	1.50	1.85	2.63	0.77	0.40	0.10					8.51	
total all species	0.95	3.13	6.10	6.19	6.91	4.10	2.14	2.14	0.13				31.79	
%	0.03	0.10	0.19	0.19	0.22	0.13	0.07	0.07	0.00				100.00%	

Note: Average Basal Area = $(\text{Basal Area of T-Trees} + \text{Basal Area of N-Trees}) / 2$

$$= 31.79 / 2$$

$$= 15.895 \text{ m}^2/\text{ha}$$

STAND & STOCK TABLE SHEET 3 - VOLUME														
1. Name of CF	Tangrung Chiphen Community Forest				Production Area		30.3 Ha							
2. Block Name	Ngang													
3. No of sample Plots					Net Production Area		24.208 Ha		(80% of production area)					
4. estimated parameter : Average Volume per Ha														
Dbh class (cm) (report all values to 2 decimals)														
Species group	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120+	total	%
Juglans Regia T	0.35	0.22	2.53	0.79									3.89	
Schima Spp T	0.61	1.34	5.79	4.48	6.06	4.33	3.40	5.59					31.61	
Lindera spp (T)	0.10	1.62	6.14	7.00	3.46	13.95	5.75	11.90					49.91	
Quercus spp (T0	0.10	1.04	3.95										5.10	
Persia spp (T)	0.89	3.66	7.31	13.74	19.90								45.50	
Acer spp (T)	0.01	0.05		1.31		2.83	0.82	1.14					6.16	
Alnus spp (T)	0.86	3.01	5.51	6.14	8.58	10.14	4.82	3.28	1.44				43.77	
Betula spp (T)	0.23	1.88	0.49	2.50	0.75	1.69	3.21	1.09					11.85	
Total Timber	3.16	12.84	31.72	35.95	38.75	32.94	18.00	22.99	1.44				197.79	
AAC (m3)	0.70	2.83	6.98	7.91	8.53	7.25	3.96	5.06	0.32				43.53	
Schima spp (N)	0.11	0.82	2.44	1.97	6.47								11.80	
Lyonia spp (N)	0.30	0.97	0.36	0.29									1.92	
Quercus spp (N)	0.32	0.79	2.61	7.36	6.09								17.17	
Persia spp (N)	0.28	1.64	1.94	1.31	4.78	4.53	1.64	1.14					17.26	
Acer spp (N)	0.01		0.69	0.66		2.83	2.46							
Alnus spp (N)	0.30	1.51	2.81	3.86	7.09								15.57	
Total N-Timber	2.02	8.55	17.83	23.36	32.95	14.61	8.07	6.20	0.32				113.90	
AAC (m3)	0.44	1.88	3.92	5.14	7.25	3.22	1.78	1.36	0.07				25.07	

AAC of Ngang Block							
Products	Dangchung	Tsim	Cham	Drashing	Pole/Post	Firewood	Total
Volume (m3)	0.70	2.83	6.98	33.03	2.32	22.74	68.59
Volume (cft)	24.55	99.80	246.54	1166.53	82.10	803.25	2422.76
No. of Trees	8	9	10	14	8	9	60
10 Years AAC							
Volume (m3)	6.95	28.26	69.80	330.26	23.24	227.41	685.95
Volume (cft)	245.51	997.98	2465.36	11665.35	820.97	8032.46	24227.67
No. of Trees	81	94	101	141	83	94	595

STAND & STOCK TABLE SHEET 1 - NUMBER OF TREES																
1. Name of CF	Tangrung Chiphen Community Forest								Production Area		30.22 Ha					
2. Block Name	Barphung															
3. No of sample Plots									Net Production Area		24.176 Ha		(80% of production area)			
4. estimated parameter	: Average Number of trees Per Ha.														(report all values to 2 decimals)	
Dbh class (cm)																
Species group	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120+	total	%		
Betula Spp (T)	1.09	0.18	0.55										1.82			
Juglans Regia (T)	0.32	0.22	2.18	0.18									2.90			
Schima Spp (T)	4.18	2.55	2.91	1.09	0.91	0.36	0.18	0.73	0.36				13.27			
Lindera spp T	2.18	1.09	7.27	0.36	0.73	1.27							12.91			
Persia Spp (T)	9.64	9.28	1.09	3.45	0.91								24.37			
Alnus Spp (T)	7.82	6.18	1.82	1.09	0.55	1.27	1.09	0.55	0.18	0.36			20.91			
Total Number of Timbr	25.23	19.50	15.82	6.18	3.09	2.91	1.27	1.27	0.55	0.36			76.19			
AAC (No.of Trees)	6	4	3	1	1	1	0	0	0	0			17			
Schima SPP (N)	6	1	4	4	1								16			
Lyonia spp (N)	3.64	4.86	4.97	0.54									14.01			
Quercus spp (N)	2.18	6.18	7.27	2.91	6.36	3.64							28.55			
Persia spp(N)	5.27	0.91	4.18	1.27	6.73	2.18	0.55	0.36					21.45			
Acer spp (N)		0.36	1.09		1.09		0.55	0.18					3.27			
Alnus spp (N)	17.82	1.82	1.09	0.91	8.18								29.82			
Betula spp (N)			0.73		1.09		0.91	0.73	0.18							
Total N trees	35.09	15.05	23.15	9.81	24.55	5.82	2.00	1.27	0.18				116.92			
AAC (No.of Trees)	6	4	3	1	1	1	0	0	0	0			17			

Note: Pole/post=D/Chung and Tsim size of N-Trees

Firewood=Drashing & Cham size of N-Trees

****20% of total production area is reduced considering some protection or unproductive area and errors in data calculation. Therefore, net production area used for calculation of AAC is 80% of 30.22 ha i.e 24.176 ha. ****

STAND & STOCK TABLE SHEET 2 - BASAL AREA

1. Name of CF	Tangrung Chiphen Community Forest	Production Area	30.22 Ha
2. Block Name	Barphung		
3. No of sample Plots		Net Production Area	24.18 Ha (80% of production area)
4. estimated parameter	Average Basal area per Ha		

Dbh class (cm)													
Species group	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120+	total
<i>Betula Spp (T)</i>	0.02	0.01	0.05										0.08
<i>Juglans Regia (T)</i>	0.01	0.01	0.20	0.03									0.25
<i>Schima Spp (T)</i>	0.07	0.12	0.27	0.17	0.21	0.12	0.08	0.41	0.25				1.70
<i>Lindera spp T</i>	0.04	0.05	0.68	0.06	0.17	0.42							1.41
<i>Persia Spp (T)</i>	0.16	0.44	0.10	0.54	0.21								1.45
<i>Alnus Spp (T)</i>	0.13	0.29	0.17	0.17	0.13	0.42	0.48	0.31	0.13	0.31			2.53
total Timber	0.43	0.92	1.47	0.96	0.72	0.95	0.55	0.71	0.38	0.31			7.42
<i>Schima SPP (N)</i>	0.11	0.04	0.36	0.65	0.25								1.41
<i>Lyonia spp (N)</i>	0.06	0.23	0.46	0.08									0.84
<i>Quercus spp (N)</i>	0.04	0.29	0.68	0.45	1.48	1.19							4.13
<i>Persia spp(N)</i>	0.09	0.04	0.39	0.20	1.57	0.71	0.24	0.20					3.44
<i>Acer spp (N)</i>		0.02	0.10		0.25		0.24	0.10					
<i>Alnus spp (N)</i>	0.30	0.09	0.10	0.14	1.91								2.54
<i>Betula spp (N)</i>			0.07		0.25		0.40	0.41	0.13				1.25
Total N species		0.71	2.15	1.53	5.72	1.90	0.87	0.71	0.13				13.73
total all species	0.43	1.62	3.62	2.50	6.44	2.85	1.43	1.43	0.51	0.31			21.14
%	0.02	0.08	0.17	0.12	0.30	0.13	0.07	0.07	0.02	0.01			100.00%

Note: Average Basal Area=(*Basal Area of T-Trees +Basal Area of N-Trees*)/2

$$=(7.42+13.73)/2$$

$$=\underline{\underline{10.572 \text{ m}^2/\text{ha}}}$$

STAND & STOCK TABLE SHEET 3 - VOLUME														
1. Name of CF	Tangrung Chiphen Community Forest					Production Area			30.22 Ha					
2. Block Name	Barphung													
3. No of sample Plots						Net Production Area			24.176 Ha		(80% of production area)			
4. estimated parameter	: Average Volume per Ha													
Dbh class (cm) (report all values to 2 decimals)														
Species group	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120+	total	%
Betula Spp (T)	0.09	0.04	0.29										0.42	
Juglans Regia (T)	0.03	0.07	1.69	0.26									2.05	
Schima Spp (T)	0.31	0.65	1.68	1.17	1.60	0.96	0.68	3.72	2.45				13.22	
Lindera spp T	0.19	0.34	5.22	0.49	1.62	4.33							12.20	
Persia Spp (T)	0.86	2.88	0.78	4.66	2.03								11.21	
Alnus Spp (T)	0.67	1.83	1.22	1.36	1.12	3.94	4.82	3.28	1.44	3.69			23.38	
Total Timber	2.16	5.80	10.89	7.95	6.37	9.24	5.49	7.01	3.89	3.69			62.48	
AAC (m3)	0.48	1.28	2.39	1.75	1.40	2.03	1.21	1.54	0.85	0.81			13.73	
Schima SPP (N)	0.41	0.24	2.56	5.65	2.59								11.45	
Lyonia spp (N)	0.24	1.28	3.33	0.73									5.59	
Quercus spp (N)	0.19	1.92	5.22	3.92	14.22	12.37							37.84	
Persia spp(N)	0.38	0.24	2.63	1.53	13.60	6.80	2.46	2.27					29.91	
Acer spp (N)		0.10	0.69		2.20		2.46	1.14						
Alnus spp (N)	1.53	0.54	0.73	1.14	16.78								20.72	
Betula spp (N)			0.49		2.24		4.01	4.38	1.44				12.56	
Total N trees	2.76	4.32	15.65	12.98	51.62	19.17	8.94	7.79	1.44				124.66	
AAC (m3)	0.61	0.95	3.44	2.85	11.35	4.21	1.97	1.71	0.32				27.40	

AAC of Barphung Block							
Products	Dangchung	Tsim	Cham	Drashing	Pole/Post	Firewood	Total
Volume (m3)	0. 48	1. 28	2. 39	9. 59	1. 56	25. 84	41. 13
Volume (cft)	16. 79	45. 05	84. 52	338. 69	54. 93	912. 75	1452. 72
No. of Trees	6	4	3	3	10	7	34
10 Years AAC							
Volume (m3)	4. 75	12. 75	23. 93	95. 89	15. 55	258. 42	411. 30
Volume (cft)	167. 89	450. 45	845. 22	3386. 91	549. 26	9127. 49	14527. 21
No. of Trees	55	43	35	34	100	69	337