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REVISED DOMKHAR LHENDUPCHOLING  
COMMUNITY FOREST MANAGEMENT PLAN





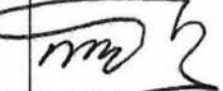
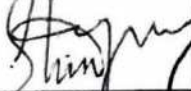

Plan period: (2023-2033)  
(1<sup>st</sup> Revision)

Chiwog: Domkhar  
Gewog: Chumig  
Dzongkhag: Bumthang

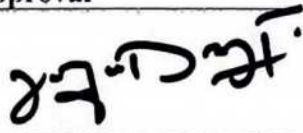
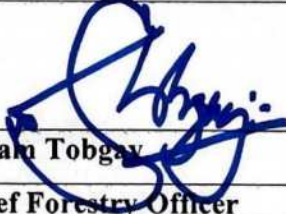
**APPROVAL SHEET**

Name of Community Forest	Domkhar Lhuendupcholing
Village	Domkhar
Chiwog	Domkhar
Gewog	Chumig
Dzongkhag	Bumthang
Production area (Hectare/Acre)	147.25/363.71
Protection area (Hectare/Acre)	20.83/30.67
Total Community Forest Area (Hectare/Acre)	168.08/415.33
Total CFMG member (No. of HH)	43

**Prepared and Submitted for Approval**

	Community Forest Management Group	Forestry Representative (CFMP Facilitators)	Gewog Administration	Social Forestry Section	Divisional/ Park Office
Signature					
Name	Tshering Samdrup	Tashi	Jambay	Karma Dorji	Pankey Dukpa
Title	Chairperson	Sr. Forest Ranger I	Gup	Head	Chief Forestry Officer

**Reviewed and Submitted for Approval**

Signature		
Name	Tsekhon Dorji	Sonam Tobgay
Title	Focal Officer	Chief Forestry Officer
Division	Forest Resource Planning & Management Division	Forest Resource Planning & Management Division

APPROVED BY:



**DIRECTOR**  
**DEPARTMENT OF FORESTS AND PARK SERVICES**

Approval No. DoFPS/FRPMD/FRPIS/CF 2-2/2022-2023/846 Dated 28<sup>th</sup> March 2023

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## **i. Acronyms**

Ac.:	Acres
AAC:	Annual Allowable Cut
BA:	Basal Area
CF:	Community Forest
CFM:	Community Forest Management
CFMG:	Community Forest Management Group
CFMP:	Community Forest Management Plan
CFO:	Chief Forestry Officer
Chiwog:	Village Hemlet
DoFPS:	Department of Forests and Park Services
FNCRR, 2017:	Forest and Nature Conservation Rules and Regulations, 2017
GT:	Gewog Tshogde
Gup:	Locally elected leader
Ha.:	Hectares
HH	Household
Km:	Kilo meter
NWFP:	Non-wood Forest Product
SRF:	State Reserved Forest
Tshogpa:	Representative of the CFMG in CF management committee



## Executive Summary

The first phase of Domkhar Lhuendupcholing Community Forest (2012-2021) had been implemented accordance to CFMP and FNCRR by 54 inhabitants of Domkhar Chiwog under Chumey Gewog of Bumthang Dzongkhag. In 2023, the evaluation was done based on objectives to assess the previous management plan and to move forward for the preparation of the next 10 year Community Forest Management Plan. The Chiwog consists of two hamlets of Zhingbee and Domkhar. The Community forest (CF) is located 30 km from the Dzongkhag headquarter, Jakar and another 5–30-minute walk from Domkhar village.

The Community Forest Management group has proactively carried out the management activities for the past 10 years and has been able to protect, utilize, manage and generated income to meet their basic resources from CF. The community Forest Management group were also benefited widely in terms of capacity building, skill development, networking, participation and social welfare activity, ensuring equitable distribution of benefits and inclusiveness etc.

The CF has new total area of 415.33 acres (168.08 ha) with production area of 363.71 acres (147.25ha) and protection area of 20.83 acres (30.67 ha) from two blocks namely Zingbee and Duegang. The CF area is divided into two blocks namely Zingbee and Dugang with area of **85.47 Ha and 82.61Ha** respectively and will be managed by 43 households. The new additional members which consists of 7 will be included in later stage once they produced independent Gung and Thram Numbers as per new Amended FNCRR 2021. The stand composition in both the blocks consist of mixed conifer trees with Bluepine as the dominating species. Both blocks has significant presences of under growth bamboo (*Borinda grossa* and *Arundanaria recemosa*).

The CF has recorded an average basal area of **21.2 m<sup>2</sup>/ha and 29.9 m<sup>2</sup>/ha** respectively from Zingbee and Duegang blocks indicating that the forest has the potential to supply timber for the CFM. Based on computation of the quantitative resource assessment conducted form 109 sample plots, the CFMG in the 2<sup>nd</sup> 10 years plan period can annually harvest 9225 cft of timber and 446 cft of fire wood from two blocks. In standing numbers, CFMG can harvest 59 (4166.58 cft) Drashing, 229 (3233.48cft) Cham, 386 (1362.58 cft) Tsim, 224 (394.24 cft) Dangchung and 12 (847.44 cft) firewood. There is deficit of firewood which will be adjusted from Drashing and Cham sized trees. The harvesting of trees from CF can be adapted to single tree selection sivilcultural system with technical guidelines and support from CFO. CFMG can also explore opportunities of PES schemes from water.

The CFMG has the following management objectives for the CF

- 1. Improve current forest condition and managed forest resources sustainably.*
- 2. Enhance income through sale of surplus timber from the CF.*
- 3. Protection of water sources and water catchment areas inside the CF.*
- 4. Protection of CF resources from illegal harvesting both by the outsiders and by the CFMG members and forest fire.*

To fulfil the above objectives the Community Forest Management Committee (CFMC) will coordinate implementation of CF management activities such as: i) Silvicultural treatment; ii) Supply of timber for house construction/ renovation & firewood, iv) Fire break construction; v) CF patrolling; vi) Demarcation of CF boundary; vii) Protection of water source in the CF, Book and record keeping etc.

As provisioned in the FNCRR 2017 and Amended clauses of 2020 & 2021, the CFMP shall be implemented on a 10-year management regime covering from 2023-2033. The CF is subject to

monitoring both by the nearest Range Office and the CFO as and when required and take appropriate measures to improve the CF. Prior to formulation of new CFMP, CF shall also undergo joint evaluation in the last quarter of the 9<sup>th</sup> year of the plan period. The renewal and approval of the revised CF plan shall be subject to findings of the final evaluation of the CF implementation for the past 10 years. While implementing the CFMP the CFMG shall strictly abide by the condition spelled out in this CFMP. The CFMG in the event of failure to manage the CF in conformity with the approved CFMP, the DoFPS reserves the right to revoke the CF certificate and suspend privileges of the CFMG to control, manage and utilize the CF upon the recommendation of the CFO.

## Part A: Management Plan

### Introduction

The Domkhar Lhuendupcholing Community Forest (CF) covers an area of 168.08 ha (415.33 acres). The first phase of Domkhar Lhuendupcholing Community Forest (2012-2021) had been implemented accordance to CFMP and FNCRR by 54 inhabitants of Domkhar Chiwog under Chumey Gewog of Bumthang Dzongkhag. In 2023, the evaluation was done based on objectives to assess the previous management plan and to move forward for the preparation of the next 10 year Community Forest Management Plan. It is approximately 1 hr drive from Chamkhar Town and another 5–30-minute walk from Domkhar village. It's located near Trongsa - Thimphu National Highway under Chumig Gewog of Bumthang Dzongkhag.

The actual CF site is divided into two blocks namely Zingbee and Duegang. Zingbee block has an area of 85.47 ha (211.19 acres) and is located just above the Zingbee village towards the left of Domkhar village whereas, Dugang block with an area of 82.61 ha (204,123 acres) is located to the right of Domkhar village. The CF is accessible both by the forest and farm roads. The CF vegetation consists of conifer forest with blue pine as dominant species. The community members decided to name the CF as **“Domkhar Lhendupcholing Community Forest”** with 43 household member that will constitute the CFMG. For efficient management of CF, a team consisting of ten committee members were formed and will function for tenure of 5 years

The CF has an average basal area of **21.2 m<sup>2</sup>/ha and 29.9 m<sup>2</sup>/ha** respectively from Zingbee and Duegang blocks indicating that the forest has the potential to supply timber for the CFM. Based on computation of the quantitative resource assessment conducted from 109 sample plots, the CFMG in the 2<sup>nd</sup> 10 years plan period can annually harvest 9225 cft of timber and 446 cft of fire wood from two blocks. In standing numbers, CFMG can harvest 59 (4166.58 cft) Drashing, 229 (3233.48cft) Cham, 386 (1362.58 cft) Tsim, 224 (394.24 cft) Dangchung and 12 (847.44 cft) firewood. There is deficit of firewood which will be adjusted from Drashing and Cham sized trees. The harvesting of trees from CF can be adapted to single tree selection sivilcultural system with technical guidelines and support from CFO. CFMG can also explore opportunities of PES schemes from water.

Potato and Oats are the main source of on-farm income for the farmers and weaving of Yathra, remittances, shops and furniture as source of off-farm income. They cultivate wheat, barley, buckwheat and vegetables for domestic consumptions, and livestock farming is yet another source of income.

The content of this CFMP has been drawn from the results of the field inventory and the participatory planning exercises. This CFMP is intended to serve as a guideline for the CFMG to manage, monitor and evaluate the CF. This CFMP is divided into two parts as follows

Part A: Management plan aspects which includes forest stock enumeration, determination of AHL and forest resource demand assessment

Part B: Covers the CFMG by-laws to ensure good governance, collection of fees, fines and penalties and benefit sharing aspects. This CFMP is subject to revision on expiry of its validity in the last quarter of 9<sup>th</sup> year of the plan period.



## Community Forest Map

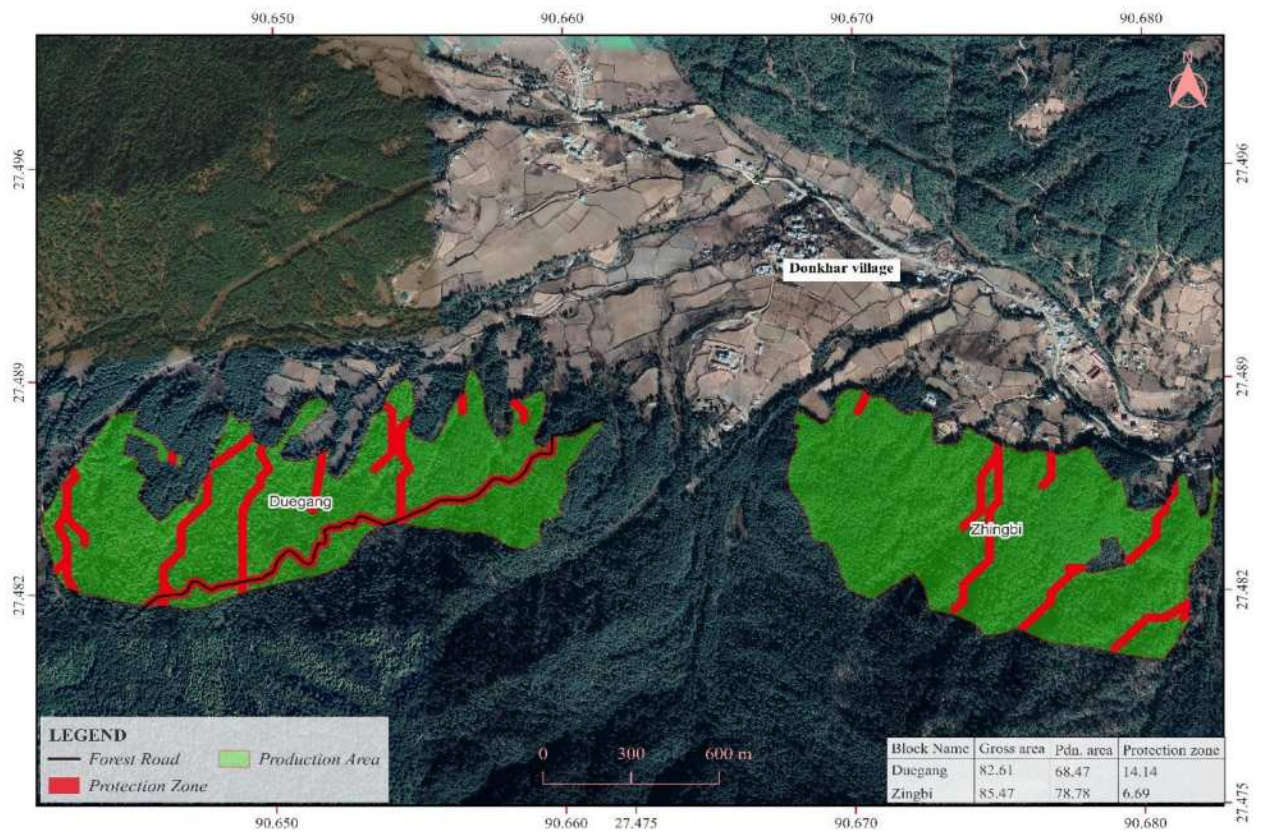


Figure 2: Map of Community Boundary

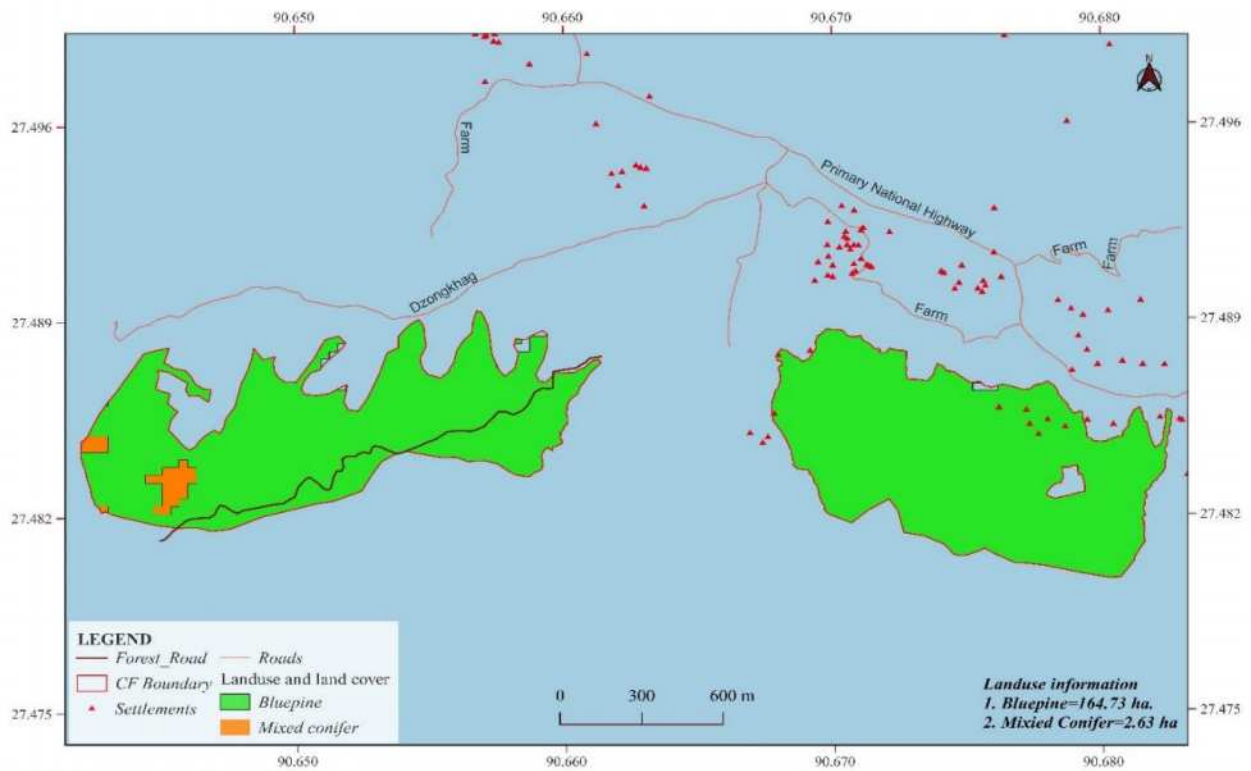


Figure 1: Land use cover map of Domkhar Lhendupcholing

### Community Forest boundaries (Zingbee)

Boundaries	Features
West	Gomthruphey
East	Khoinunti
South	Tamrok
North	Taktsepa Singma

### Community Forest boundaries (Duegang)

Boundaries	Features
West	Nangbu
East	Dospang
South	Ugulinang
North	Menzebi

### Planning process in formulation of Domkhar Lhuendupcholing CFM plan

Date	Planning Activities
2022	Submission of CF application requesting to Range Office, Chumig for revision of Domkhar Lhuendup CF Management Plan
	Review of CF application and joint evaluation conducted with existing committee members
2023	Verify and Finalized CF membership and Thram to fulfil the requirement of amended FNCRR 2021, Chapter III, Section (78(1).
	Visualize past CF maps and demarcated the boundary as per eligibility (3 ha per household)
	Field Truthing exercise for CF boundary conducted with CF committee members and finalization of CF proposed site.
	CF boundary delineation and mapping, designing of CF inventory plots
	Resource assessment, data compilation and analysis
	Drafting of CF management plan
	Forwarding of CFM plan for technical review and recommendation to CFO
	Ratification of draft plan with the CFMG if necessary
	Forwarding of CFM plan for review and approval to the Forest Resource Planning Management Division, DoFPS, Thimphu.
	Approval of the final plan by the Director, DoFPS, Thimphu.
	Handing over of Approved CFMP and certificate to the CFMG

### Social information

Name of the villages	Donglakha, Zingbee, Phojob, Domkhar, Burap, Birchey
Ethic groups with CFMG	Bumthab, Kurtoeb, Lhotsham, Sharchop, Ngaloop, Khengpa, Mangdep
Basic amenities	Farm road, drinking water, Lhakhang, School, TTI, Wangchuk Academy, electricity, ORC, Mobile services (BT & Tashi), Domkhar Tashicholing Palace, Trongsa-Bumthang National Highway,

	Shops and Restaurants, Sawmills, Beauty Parlour, Water Mill, Guest house, Furniture house, Tyre Workshop, Waste collection facility,
Total households (HH) number of CFMG	43
Population of CFMG	159
% male and % female	48 % Male and 52% female
Plan for house construction/ Renovation	12 HHs for New construction / 3 renovation
Main source of income	Potato, Oats, Fodder seeds, furniture, shops, workshops, foreign remittances, NWFPs (
Cattle population of the CFMG	245
Main crops	Buckwheat, Barley
Cropping pattern	Potato/Oats>Buckwheat, barley, wheat>vegetables
Any other information	Zhingdrup, Domkhar Tsechu, Kanjur

### Forest Information

Basal area : 21.2m<sup>2</sup>/ha in Zingbee block and 29.9m<sup>2</sup>/ha in Duegang block. The proposed CF served as the main source of supply of constructional timber, firewood, flag pole, fencing post and leaf litter to the communities. The area is divided into two blocks viz. Zingbee and Duegang Block. The main dominant species are Bluepine trees followed by hemlock, Betula and undergrowth shrubs. The overall forest condition is good with even aged stands that have good potential for harvesting in future. The following blockwise information is being described separately based on templates.

### Zingbee Block

Format 1. Forest Resource Assessment Format	
Name of Community Forest	Domkhar Lhendupcholing
Date of Assessment	08/02/2023
Name of block	Zingbee
Block area	85.47 ha
Name of recorder	Sangay Wangmo, Chumig Range Office

Forest & Habitat Type					
Forest <input checked="" type="checkbox"/>		Thicket/pole stage <input type="checkbox"/>		Shrubland <input type="checkbox"/>	
Grassland <input type="checkbox"/>		Plantation		Other <input type="checkbox"/>	
Vegetation type					
Subtropical forest <input type="checkbox"/>		Chir pine forest		Warm broadleaved forest	
				Blue pine forest	
				<input checked="" type="checkbox"/>	
Cool broadleaved forest <input type="checkbox"/>		Mixed conifer forest <input type="checkbox"/>		Fir forest <input type="checkbox"/>	
				OTHER	
				<input type="checkbox"/>	

Forest Condition (Tree species)	
Local name	Scientific name
Dokseng	<i>Pinus wallichiana</i>
Nakseng	<i>Tsuga dumosa</i>
Peseng	<i>Picea spinolosa</i>
Takpashing	<i>Betula utilis</i>

Plantation			
Is there any plantation?	Yes	Approximate height of planted trees (m)	
	No <input checked="" type="checkbox"/>		
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 checked="" 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			
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		
Abundant <input type="checkbox"/> Regeneration easy to find in most places	Scattered/few <input checked="" type="checkbox"/> Regeneration only in some places and hard to find	None <input type="checkbox"/> No regeneration
Write the names of the 3 main tree species in the regeneration		
1. <i>Pinus wallichina</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 <input type="checkbox"/>
Does the main forest canopy consist of large, mature trees?		Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>

Forest Condition Class Box				
Age	Canopy density	Regeneration & coppice	Seed tree class	Condition
Mature forest	Dense	Abundant	Pinus Wallichina	Very good
		Scattered/few		Good
	Open	Abundant		Good
		Scattered/few		Average
Pole stage forest	Dense	Abundant		Good
		Scattered/few		Average
	Open	Abundant		Average
		Scattered/few		Poor
	Dense		Moderate or High	Average

Shrubland and young growth	Dense		Low	Average
	Open		Low	Poor
Any	Very open	None		Poor
<b>Open spaces</b>				
Approximate total open space area (ha)				
Dominant vegetation type in the open space			<b>Bamboo regeneration</b>	
Cause of open space e.g. grazing, fire, harvesting, etc.			Harvesting	
<b>Grazing and fodder</b>				
Grassland type				
Natural	<input 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

Pasture quality (list the 3 dominant species in the grassland)		
Local name	Scientific name	Palatable/unpalatable
Use pattern	Seasonal <input type="checkbox"/>	All year <input type="checkbox"/>

Type of user	Migratory <input type="checkbox"/>	Local <input type="checkbox"/>	Both <input type="checkbox"/>
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<b>Catchment Condition</b>	
(i) Catchment condition – soil cover	
<b>Soil cover</b>	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	
<b>Soil type</b> (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 <input checked="" type="checkbox"/>
10° – 30°	Moderate <input type="checkbox"/>
> 30°	Steep
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 checked="" type="checkbox"/>
	Highly critical <input type="checkbox"/>

<b>Catchment Condition Class Box</b>			
Slope category	Soil erosivity	Cover class	Condition class
Flat	Erosive	Moderate or high	Moderately critical
		Low	Highly critical
	Non erosive	Any	Less critical
Moderate	Erosive	Moderate or high	Moderately critical
		Low	Highly critical
	Non erosive	Moderate or high	Less critical

		Low	Moderately critical
Steep	Erosive	Moderate or high	Moderately critical
		Low	Highly critical
	Non erosive	Moderate or high	Moderately critical
		Low	Highly critical

Fauna	
Local Name	Scientific name
Wom (Himalayan Black Bear)	<i>Ursus thibetanus laniger</i>
Shaw	<i>Cervus unicolor</i>
Riphag (wild boar)	<i>Sus crofa</i>
Kasha (Barking Deer)	<i>Muntiacus mutjak</i>
Spotted Nutcracker	<i>Nucifraga caryocatactes</i>
Green-backed Tit	<i>Parus monticolus</i>
Large-billed Crow	<i>Corvus macrohynchos</i>
Red-billed Chough	<i>Pyrrhocorax pyrrhocorax</i>
White throated laughingthrush	<i>Garrulax albogularis</i>
Eurasian Cuckoo	<i>Uculus canorus</i>

Biotic Pressures			
Fire	Common <input type="checkbox"/>	Occasional <input checked="" type="checkbox"/>	Absent <input type="checkbox"/>
Grazing	Heavy <input type="checkbox"/>	Limited <input checked="" type="checkbox"/>	Absent <input type="checkbox"/>
Fodder collection (list main species used)	Common <input type="checkbox"/>	Limited	Absent <input checked="" type="checkbox"/>
NWFP collection (list the main products including bamboo & cane)	Common <input checked="" type="checkbox"/> Mushroom	Limited <input type="checkbox"/>	Absent <input type="checkbox"/>
Leaf litter collection	Common <input type="checkbox"/>	Limited <input checked="" 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 checked="" type="checkbox"/>	Occasional <input 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	Absent <input checked="" type="checkbox"/>
Potential Management Options (list any potential management options for the CF/block)			
1	Thinning especially pole-sized timber		
2	Catchment protection		
3	Cleaning to induce natural regeneration		

### Duegang Block

Format 1. Forest Resource Assessment Format	
Name of Community Forest	Domkhar Lhendupcholing
Date of Assessment	08/02/2023
Name of block	Duegang
Block area	82.61 ha
Name of recorder	Tsheten Wangchuk, Karshong FMU Office

Forest & Habitat Type



Forest <input checked="" type="checkbox"/>	Thicket/pole stage <input checked="" type="checkbox"/>	Shrubland <input type="checkbox"/>
Grassland <input type="checkbox"/>	Plantation	Other <input type="checkbox"/>
Vegetation type		
Subtropical forest <input type="checkbox"/>	Chir pine forest	Warm broadleaved forest
Cool broadleaved forest <input type="checkbox"/>	Mixed conifer forest <input type="checkbox"/>	Fir forest <input type="checkbox"/>
		Blue pine forest <input checked="" type="checkbox"/>
		OTHER <input type="checkbox"/>

Forest Condition (Tree species)	
Local name	Scientific name
Dokseng	<i>Pinus wallichiana</i>
Nakseng	<i>Tsuga dumosa</i>
Peseng	<i>Picea spinolosa</i>
Takpashing	<i>Betula utilis</i>
Plantation	
Is there any plantation?	Approximate height of planted trees (m)
Yes <input type="checkbox"/>	
No <input checked="" type="checkbox"/>	
Year planted	Is the plantation?
	Under stocked <input type="checkbox"/>
	Stocked <input type="checkbox"/>
	Overstocked <input type="checkbox"/>

Forest Condition – Age			
Mature <input type="checkbox"/>	Pole stage <input checked="" type="checkbox"/>	Shrubland <input type="checkbox"/>	Any <input type="checkbox"/>
Main canopy of mature trees	Main canopy of pole-stage trees	Main canopy of shrubs, young trees or regeneration	No continuous canopy. Isolated trees only
Forest Condition – Canopy density			
Dense <input type="checkbox"/>	Open <input checked="" type="checkbox"/>	Very open <input type="checkbox"/>	
Canopy density > 70%	Canopy density < 70%	No real canopy. Isolated trees only	

Forest Condition – Regeneration		
<b>Abundant</b> <input checked="" type="checkbox"/>	Scattered/few <input type="checkbox"/>	None <input type="checkbox"/>
Regeneration easy to find in most places	Regeneration only in some places and hard to find	No regeneration
Write the names of the 3 main tree species in the regeneration		
1. <i>Pinus wallichina</i>	<i>Hemlock</i>	<i>Spruce</i>
Regeneration: Seedlings > 30cm and < 1.3m height		

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

Forest Condition Class Box				
Age	Canopy density	Regeneration & coppice	Seed tree class	Condition
Mature forest	Dense	Abundant	<i>Pinus Wallichina</i>	Very good
		Scattered/few		Good
	Open	Abundant		Good
		Scattered/few		Average
Pole stage forest	Dense	Abundant		Good
		Scattered/few		Average
	Open	Abundant		Average
		Scattered/few		Poor
Shrubland and young growth	Dense		Moderate or High	Average
	Dense		Low	Average
	Open		Low	Poor
Any	Very open	None		Poor
Open spaces				
Approximate total open space area (ha)				
Dominant vegetation type in the open space			<b>Bamboo regeneration</b>	
Cause of open space e.g. grazing, fire, harvesting, etc.			Harvesting	
Grazing and 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

Pasture quality (list the 3 dominant species in the grassland)		
Local name	Scientific name	Palatable/unpalatable
Use pattern	Seasonal <input checked="" type="checkbox"/>	All year <input type="checkbox"/>

Type of user	Migratory <input type="checkbox"/>	Local <input type="checkbox"/>	Both <input type="checkbox"/>
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Catchment Condition	
(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"/> disperses and/or breaks up in water easily	Non-erosive <input checked="" type="checkbox"/> 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	
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 checked="" type="checkbox"/> Highly critical <input type="checkbox"/>

Catchment Condition Class Box			
Slope category	Soil erosivity	Cover class	Condition class
Flat	Erosive	Moderate or high	Moderately critical
		Low	Highly critical
	Non erosive	Any	Less critical
Moderate	Erosive	Moderate or high	Moderately critical
		Low	Highly critical
	Non erosive	Moderate or high	Less critical
		Low	Moderately critical
Steep	Erosive	Moderate or high	Moderately critical
		Low	Highly critical
	Non erosive	Moderate or high	Moderately critical
		Low	Highly critical

Fauna	
Local Name	Scientific name
Wom (Himalayan Black Bear)	<i>Ursus thibetanus laniger</i>
Shaw	<i>Cervus unicolor</i>
Riphag (wild boar)	<i>Sus crofa</i>
Kasha (Barking Deer)	<i>Muntiacus mutjak</i>
Spotted Nutcracker	<i>Nucifraga caryocatactes</i>
Green-backed Tit	<i>Parus monticolus</i>
Large-billed Crow	<i>Corvus macrohynchos</i>
Red-billed Chough	<i>Pyrrhocorax pyrrhocorax</i>
White throated laughingthrush	<i>Garrulax albogularis</i>
Eurasian Cuckoo	<i>Uculus canorus</i>

Biotic Pressures			
<b>Fire</b>	Common <input type="checkbox"/>	Occasional <input checked="" type="checkbox"/>	Absent <input type="checkbox"/>
Grazing	Heavy <input type="checkbox"/>	Limited <input checked="" type="checkbox"/>	Absent <input type="checkbox"/>
Fodder collection (list main species used)	Common <input type="checkbox"/>	Limited	Absent <input checked="" type="checkbox"/>
NWFP collection (list the main products including bamboo & cane)	Common <input checked="" type="checkbox"/> Mushroom	Limited <input type="checkbox"/>	Absent <input type="checkbox"/>
Leaf litter collection	Common <input type="checkbox"/>	Limited <input checked="" 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 checked="" type="checkbox"/>	Occasional <input 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	Absent <input checked="" type="checkbox"/>

Biotic Pressures	
Potential Management Options (list any potential management options for the CF/block)	
1	Four numbers of perianal stream need to be protected from pollution and buffer needs to maintain for future
2	Thinning of pole sized-timber
3	Cleaning to induce natural regeneration

## Management procedures

### Zingbee block

1	Produces/services	Timber (Drashing/Cham/Tsim)	Firewood	Water	NWFPS	Bamboo	Leaf litter	Flag poles
2	Main species	<i>Bluepine, Hemlock, Betula</i>	<i>Bluepine, Hemlock, Spruce</i>	<i>Menchu, drinking an</i>	<i>Mushroom, Sauwa, Masutaka</i>	<i>Borinda grossa</i>	<i>Pine needles Fern</i>	<i>Bluepine</i>
3	Problems	<ul style="list-style-type: none"> <li>No road</li> </ul>	<ul style="list-style-type: none"> <li>No road</li> <li>No sufficient firewood</li> </ul>	<ul style="list-style-type: none"> <li>No problem</li> </ul>	<ul style="list-style-type: none"> <li>Illegal collection and harvesting</li> </ul>	<ul style="list-style-type: none"> <li>Insufficient bamboo</li> </ul>	<ul style="list-style-type: none"> <li>No problem</li> </ul>	<ul style="list-style-type: none"> <li>No problem</li> </ul>
4	Opportunities	<ul style="list-style-type: none"> <li>Harvest trees</li> <li>Sale excess timber</li> <li>Monitor</li> <li>Improve livelihood</li> <li></li> </ul>	<ul style="list-style-type: none"> <li>Utilize by CFMG</li> <li>Dead cases allotment</li> <li>Seell excess timber</li> </ul>	<ul style="list-style-type: none"> <li>Water mill, Mni dunkhoe r, Menchu, Agriculture use</li> </ul>	<ul style="list-style-type: none"> <li>To market the mushroom</li> <li>To create awareness to the public and outsiders</li> </ul>	<ul style="list-style-type: none"> <li>Personal utilization</li> <li>Cattle shed and basket meeting</li> <li>Fencing</li> </ul>	<ul style="list-style-type: none"> <li>Bedding and organic manure making</li> </ul>	<ul style="list-style-type: none"> <li>Allot during death cases</li> <li>Thinning and selection felling</li> </ul>
5	Management objectives	<ul style="list-style-type: none"> <li>Protect forest</li> <li>Improve existing stand and</li> </ul>	<ul style="list-style-type: none"> <li>Equitable distribution forest resources</li> <li>Salvage timber, dead, dying, diseased trees</li> </ul>	<ul style="list-style-type: none"> <li>To protect water sources and catchment</li> </ul>	<ul style="list-style-type: none"> <li>To generate income</li> <li></li> </ul>	<ul style="list-style-type: none"> <li>Project over exploitation</li> </ul>	<ul style="list-style-type: none"> <li>To improve livelihood</li> </ul>	<ul style="list-style-type: none"> <li>Improve current forest conditions</li> </ul>
6	Activities	<ul style="list-style-type: none"> <li>Boundary clearing</li> <li>Cleaning and pruning</li> </ul>	<ul style="list-style-type: none"> <li>Permit issuance</li> <li>Marking</li> <li>Cleaning</li> </ul>	<ul style="list-style-type: none"> <li>Protect catchment</li> </ul>	<ul style="list-style-type: none"> <li>To patrol</li> <li>Create awareness to the collectors</li> </ul>	<ul style="list-style-type: none"> <li>Obtain permit from Range</li> </ul>	<ul style="list-style-type: none"> <li>Thin the crowded stand</li> <li>Create conducive</li> </ul>	<ul style="list-style-type: none"> <li>Patrol and issuance of permit</li> </ul>

		<ul style="list-style-type: none"> <li>• Selection felling</li> <li>• Patrolling</li> <li>• Forest fire line construction</li> </ul>		<ul style="list-style-type: none"> <li>• Explore PES activity</li> <li>•</li> </ul>	(both CFMG and non-CF members)		opening for natural regenerations	
7	Procedures	<ul style="list-style-type: none"> <li>• To obtain construction approval</li> <li>• Issue permit for construction purposed during October and November</li> <li>• Mark trees during November</li> <li>• Extract timber within 3 years</li> </ul>	<ul style="list-style-type: none"> <li>• Issue permit in January</li> <li>• Mark in January</li> <li>• 4 standing trees</li> <li>• Complete in 3 months</li> </ul>	<ul style="list-style-type: none"> <li>• Awareness to the beneficiaries</li> <li>• Consultation meeting and explore PES</li> <li>•</li> </ul>	<ul style="list-style-type: none"> <li>• Issue collection permit to collectors (CFMG members and outsiders)</li> </ul>	<ul style="list-style-type: none"> <li>• Obtain collect from Range</li> <li>• Chairperson shall collect the list requiring bamboo and process in group</li> </ul>	<ul style="list-style-type: none"> <li>• Free collection</li> </ul>	Supply on death cases Lhadar extraction for Community Lhakhang
8	Responsibility	<ul style="list-style-type: none"> <li>• Forest Officials, Chairperson, CFMG members</li> </ul>	<ul style="list-style-type: none"> <li>• Applicants, Chairperson</li> </ul>	<ul style="list-style-type: none"> <li>• Chairperson</li> </ul>	<ul style="list-style-type: none"> <li>• CFMG committee members</li> </ul>	<ul style="list-style-type: none"> <li>• Chairperson</li> </ul>	<ul style="list-style-type: none"> <li>• Individual concerned</li> </ul>	<ul style="list-style-type: none"> <li>•</li> </ul>

#### Duegang block

1	Produces/services	Timber (Drashing/Cham/Tsim)	Firewood	Water	NWFPS	Bamboo	Leaf litter	Flag poles
2	Main species	<i>Bluepine, Hemlock,</i>	<i>Bluepine,</i>	<i>Menchu, drinking</i>	<i>Mushroom, Masutaka</i>	<i>Borinda grossa</i>	<i>Pine needles Fern</i>	<i>Bluepine</i>



3	Problems	<ul style="list-style-type: none"> <li>• No road</li> <li>• Illicit felling</li> </ul>	<ul style="list-style-type: none"> <li>• No road</li> <li>• No sufficient firewood</li> <li>• Illicit felling</li> </ul>	<ul style="list-style-type: none"> <li>• Illegal felling</li> </ul>	<ul style="list-style-type: none"> <li>• Illegal collection and harvesting</li> </ul>	<ul style="list-style-type: none"> <li>• Insufficient bamboo</li> </ul>	<ul style="list-style-type: none"> <li>• No problem</li> </ul>	Insufficient prayer flags
4	Opportunities	<ul style="list-style-type: none"> <li>• Explore construction of farm road</li> <li>• Sale excess timber</li> <li>• Patrolling</li> </ul>	<ul style="list-style-type: none"> <li>• Utilize by CFMG</li> <li>• Dead cases allotment</li> <li>• Sell excess timber</li> <li>• Check gate</li> </ul>	<ul style="list-style-type: none"> <li>• Drinking Menchu,</li> <li>• PES scheme with Birchey mineral water factory</li> </ul>	<ul style="list-style-type: none"> <li>• To market the mushroom</li> <li>• To create awareness to the public and outsiders</li> </ul>	<ul style="list-style-type: none"> <li>• Personal utilization</li> </ul>	<ul style="list-style-type: none"> <li>• Bedding and manure making</li> </ul>	Allot during death cases Thinning and selection felling
5	Management objectives	<ul style="list-style-type: none"> <li>• Protect forest</li> <li>• Improve existing stand and</li> </ul>	<ul style="list-style-type: none"> <li>• Equitable distribution forest resources</li> <li>• Salvage timber, dead, dying, diseased trees</li> </ul>	<ul style="list-style-type: none"> <li>• To protect water sources and catchment</li> <li>• To generate income</li> </ul>	<ul style="list-style-type: none"> <li>• To generate income</li> </ul>	<ul style="list-style-type: none"> <li>• Project over exploitation</li> </ul>	<ul style="list-style-type: none"> <li>• To improve livelihood</li> </ul>	Improve current forest conditions
6	Activities	<ul style="list-style-type: none"> <li>• Boundary clearing</li> <li>• Cleaning and pruning</li> <li>• Harvesting</li> <li>• Construct road</li> <li>• Patrolling</li> </ul>	<ul style="list-style-type: none"> <li>• Permit issuance</li> <li>• Making</li> <li>• Cleaning</li> <li>• Construction of check gate</li> </ul>	<ul style="list-style-type: none"> <li>• Protect catchment</li> <li>• Consult with the beneficiaries for PES</li> </ul>	<ul style="list-style-type: none"> <li>• To patrol</li> <li>• Create awareness training</li> </ul>	<ul style="list-style-type: none"> <li>• Obtain permit from Range</li> </ul>	<ul style="list-style-type: none"> <li>• Thin the crowded stand</li> <li>• Create conducive opening for natural regenerations</li> </ul>	•

		<ul style="list-style-type: none"> <li>• Forest fire line construction</li> </ul>		<ul style="list-style-type: none"> <li>•</li> </ul>				
7	Procedures	<ul style="list-style-type: none"> <li>• To obtain clearances</li> <li>• Issue permit for construction purposed during October and November</li> <li>• Mark trees during November</li> <li>• Issue permit for firewood and fencing post in January</li> <li>• Extract timber within 3 years</li> </ul>	<ul style="list-style-type: none"> <li>• Issue permit in January</li> <li>• Mark in January</li> <li>• 4 standing trees</li> <li>• Complete in 3 months</li> <li>• Seek approval from Gewog Administration for erection of check gate</li> </ul>	<ul style="list-style-type: none"> <li>• Awareness to the beneficiaries</li> <li>• Consultation meeting and explore PES</li> <li>•</li> </ul>	<ul style="list-style-type: none"> <li>• Issue collection permit to collectors (CFMG members and outsiders)</li> <li>• Notify through gewog administration for larger public audiences</li> </ul>	<ul style="list-style-type: none"> <li>• Obtain collect from Range</li> <li>• Chairperson shall collect the list requiring bamboo and process in group</li> </ul>	<ul style="list-style-type: none"> <li>• Free collection</li> </ul>	<ul style="list-style-type: none"> <li>• Supply on death cases</li> <li>• Lhadar extraction for Community Lhakhang</li> </ul>
8	Responsibility	<ul style="list-style-type: none"> <li>• Forest Officials, Chairperson, CFMG members</li> </ul>	<ul style="list-style-type: none"> <li>• Applicants, Chairperson</li> </ul>	<ul style="list-style-type: none"> <li>• Chairperson</li> </ul>	<ul style="list-style-type: none"> <li>• CFMG committee members</li> </ul>	<ul style="list-style-type: none"> <li>• Chairperson</li> </ul>	<ul style="list-style-type: none"> <li>• Individual concerned</li> </ul>	<ul style="list-style-type: none"> <li>•</li> </ul>

## Annual Allowable Cut

The AAC of each block of the CF is tabulated in the following table

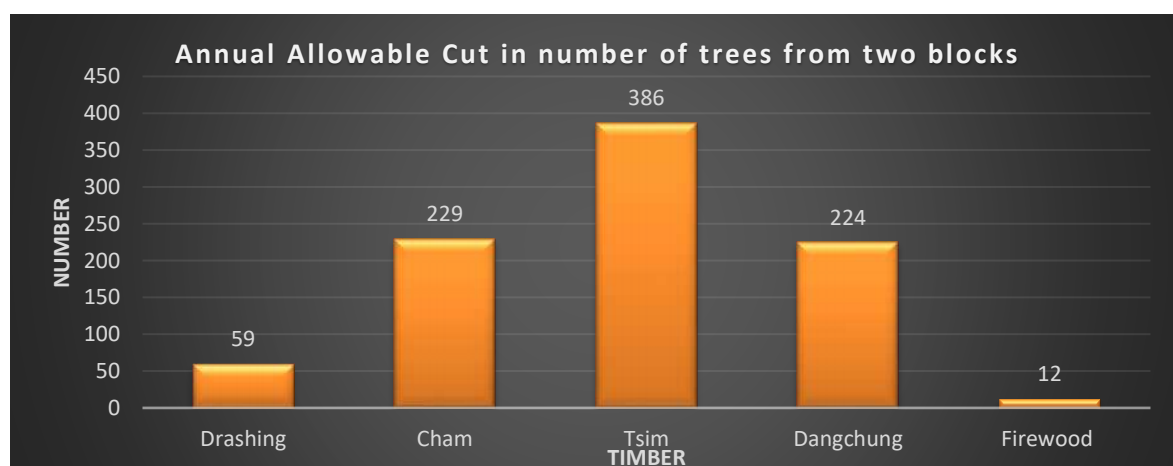
Sl.No	Name of Block	Annual Allowable Cut (cft)	
		Timber	Firewood
1	Zingbee	3955	339
2	Duegang	5270	107

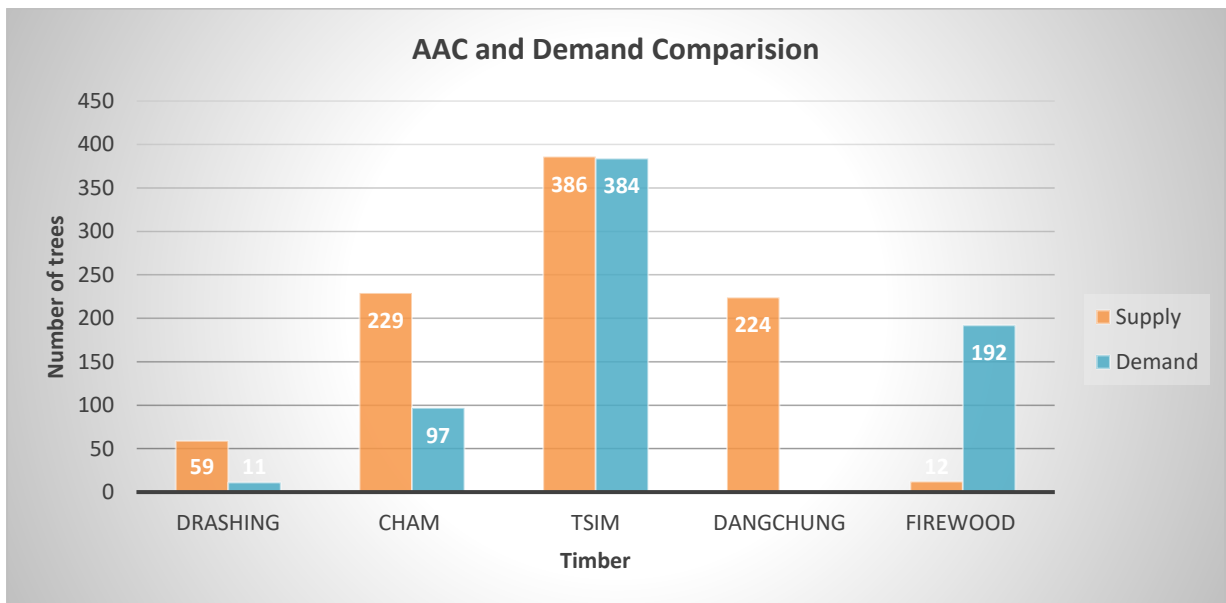
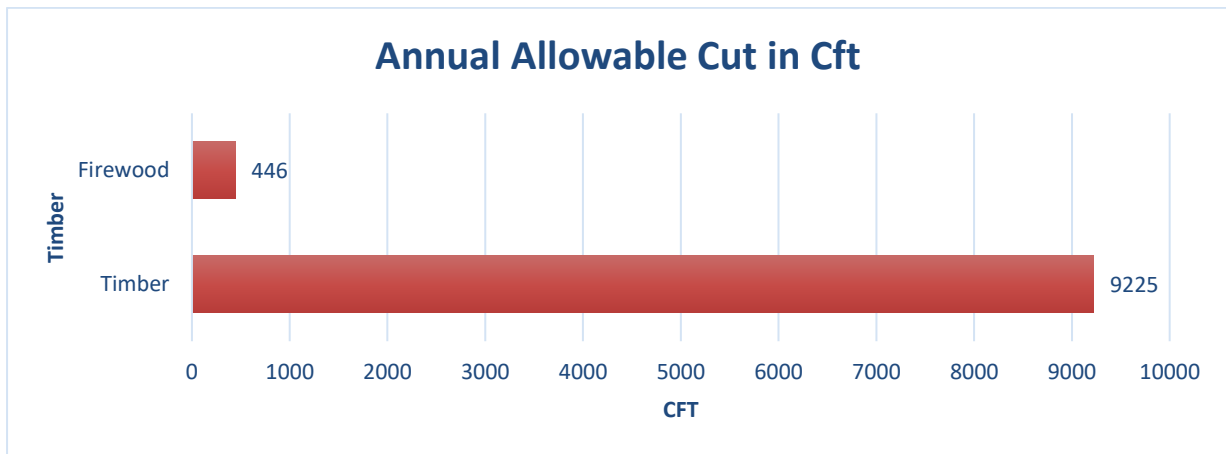
### Demand assessment for Domkhar Lhuendupcholing Community Forest

Produce	Annual estimated requirement		No. of hh requiring annually (C)	Total requirement of the produce annually		Total requirement of produce in 10 years	
	Number (A)	Vo. in cft (B)		Number	Vol. in cft	Number	Vol. in cft
New constructions							
Drashing	8	564,96	1	8	564.96	80	5649.60
Cham	80	1129.60	1	80	1129.60	800	11,296
Renovation							
Drashing	2	141.24	0.3	0.6	42.37	6	423.70
Cham	10	141.20	0.3	3	42.36	30	423.60
Altar construction (Drashing)	2	141.24	1	2	141.24	20	1412.40
Fencing Posts	8	14.08	48	384	675.84	3840	6758.00
Cattle shed construction (pole-sized)							
Cham	5	70.60	2.7	13.5	190.62	135	1906.2
Firewood (drashing-sized)	4	282.48	48	192	13559.04	1920	135,590.40

Note: Conversion factor based on FRDD, 2004 (10.2)

There were 12 households requiring timber for new construction and 3 households for renovation in entire 10 years' time.





The firewood deficits of 180 trees shall be met from the excess timber (Drashing, Cham, Tsim and Dangchug).

## Participatory Environment Assessment

	Potential Environmental Effects				Potential Socio-Economic Effects			
Activity proposed in CFMP	Soil	Water	Wild animals	Plants	Traditional forest use	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	+	+
Construction of check gate	0	0	0	++	+++	+	0	++
Conduct patrol	0	+	++	++	+	0	0	++
Plantation	+++	+++	++	++	0	0	0	++
Cordoning of catchment and water sources	+++	+++	++	+++	0	0	0	++
Extraction of stones through surface collection	-	0	0	-	0	-	++	++
Road Construction	-	-	0	-	0	-	+	++

+++ indicates Positive effect - - - indicates Negative 0- No effect

#### Address potential negative effects

Activity	Procedure
Timber and firewood harvesting	Timber extraction shall take place carefully avoiding damages to the younger regeneration and leaving no off cuts, felling direction should be considered so that regeneration is not damaged. Single tree selection shall be applied to harvest timber for stand improvement and providing suitable condition for natural regeneration. Silviculture considerations will be well taken care especially while marking. Avoid felling within 15 meters of streams and water sources and 50 meters uphill and 50 meters downhill of the farm road.
Clearing of CF boundary	Clearing bushes of 4 m length around CF boundary and red paint should be mark on CF boundary tree
Cleaning	Cut down unwanted bushes and shrubs
Thinning	Removal of dead, dying and malformed trees, and less desirable species or trees that are over mature and poor quality. Annually identify thinning sites in young stand and supply thinned out crop in lieu of fencing post, flag pole, dangchung and tsim.
Fire breaks	Creating awareness, imposing fine and clearing bushes and trees above and below farm road with width of 5m.
Farm Road Construction	Obtain Environment Clearance from Dzongkhag Administration, follow best practices of road construction guidelines and avoid damages to water sources and tress.

Extraction of stones through surface collection mode	No excavation works will be allowed. No blasting will be carried out
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### Participatory Forest Resource and Services Monitoring

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"> <li>Area of CF cleaned through sanitation works and thinning</li> <li>Incidences of illegal activities</li> <li>Numbers of trees marked/felled</li> <li>Basal area and forest stock</li> </ul>	<ul style="list-style-type: none"> <li>Annual monitoring formats supervise during cleaning</li> <li>Regular patrolling</li> <li>Annual monitoring format and maintain data while marking and final evaluation.</li> </ul>	Forest Officer and CFMG executive members	Regular monitoring will be done by Forest Officer and overall data will be collected during annual monitoring conducted at the end of Calendar year.
To share forest resources on equitable basis among the CFMG members	<ul style="list-style-type: none"> <li>Number of timbers harvested.</li> <li>Houses constructed and renovated.</li> </ul>	<ul style="list-style-type: none"> <li>Annual monitoring format. Marking and passing</li> <li>Annual monitoring and physical observations.</li> </ul>	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"> <li>Water flow rate</li> <li>Area cordoned and improvement of site condition</li> </ul>	<ul style="list-style-type: none"> <li>Measure flow rate</li> </ul>	CFMG representative and Forest Officer	Use container and stop watch method.
Promote income generating activities including tourism packages	<ul style="list-style-type: none"> <li>Income earned from selling excess timber</li> <li>Income from PES</li> </ul>	<ul style="list-style-type: none"> <li>Volume of Excess timber sold</li> <li>Pes Schemes</li> </ul>	CFMG representative and Forest Officer and Incharge of Range Office	Approval should be sanctioned by CFO before selling surplus timber.



Ensure good governance and improve social cohesion and cooperations	<ul style="list-style-type: none"> <li>• Quality of records maintained.</li> <li>• Trainings provided.</li> <li>• Conflicts</li> </ul>	<ul style="list-style-type: none"> <li>• Cross check records books and accounts.</li> <li>• Annual monitoring</li> </ul>	CFMG representative and Forest Officer and In-charge of Range Office	Invite CFO & GT Chairperson during 9 <sup>th</sup> year.
Construction of fire line	Length of fireline constructed	<ul style="list-style-type: none"> <li>• Labour contribution</li> </ul>	All CFMG members	Concerned Range Officer will support for the length and width of fireline above farm and high way road.

### **Participatory Social and Institutional impact monitoring**

<b>Activity</b>	<b>Indicators</b>	<b>How it will be monitored</b>	<b>Responsibility</b>	<b>comments</b>
Equitable resource sharing	No. of disadvantage HHs supported	Record books	CF management Committee	
CFMG general meeting	Number of participation of CFMG members in the meeting	Review of CF record books and minutes of meeting	CFMG executive members	
Providing loan for CFMG members	No. of HH provided loan	Fund disbursement record	CFMG and Forest Official	
Capacity Development training	No. of training/study tour and report submitted	Evalutaion of annual repoprt	CFMG fund and technical guidance from CFO	Range Office and CFO, Bumthang
Improve the quality of forest stands	CFMG members participation in CF development activities	CF attendance record and frequency of meeting	CFMG and CF executive members	Range Office will assist and monitor

## Annual Work Plan

Location	Activity	Year										Responsibility
		1	2	3	4	5	6	7	8	9	10	
Zingbee	CF boundary clearing (4 meters width)											Chairperson, CFMG members and Range Officer
Duegang	CF boundary clearing (4 meters width)											Chairperson, CFMG members and Range Officer
Zingbee	Conduct consultation meeting with the drinking water beneficiaries for PES feasibility											CFMG Committee
Duegang	Conduct consultation meeting with the drinking water beneficiaries for PES feasibility											CFMG Committee
Zingbee and Duegang	Create awareness to the mushroom () and NWFP collectors on collection conditions											CFMG Committee
Zingbee	Cleaning and thinning											Chairperson & CFMG
Duegang	Cleaning and thinning											Chairperson & CFMG
Duegang	Seek approval for construction of check gate											
Zingbee	Fireline constructions											Chairperson & CFMG
Duegang	Fireline constructions											Chairperson & CFMG
Zingbee and Duegang	Conduct patrolling											Chairperson & CFMG
Zingbee and Duegang	Timber harvesting											CFMG, Committee
	Renovation/extension of Domkhar Lhuendupcholing Lhakhang											
	Conduct general meeting and committee meeting											Forest Range Officer, CFMG
	Book keeping training											Forest Range Officer, CFMG
	Silviculture training											DFO, Bumthang
	Participatory monitoring of CF area											CFMG members

	Submission annual work plan and progress report to Range Officer through Range Office, Chumig												CF committee members
	Conduct annual monitoring of CF												

### **CF Networks and Association**

CFMG shall be allowed to participate in CF network and association on volunteer basis to strengthen good governance, sustainable utilization of resource, equity, and common market access.

### **Monitoring of CF activities**

The Divisional Forest Office, Bumthang will carry out monitoring on annual basis by involving Range In-charge and CFMG executive members. Monitoring shall be carried out as per technical guidelines provided by the Department from time to time. Any ad- hoc activities shall be monitored by CFO and Range In-charge involving concerned Chiwog Tshogpa and GT representatives.

### **Evaluation of CFM Plan**

CFO, Range In-charge and GT representative shall conduct a midterm review during 5<sup>th</sup> year and final evaluation in the last quarter of 9<sup>th</sup> year. If the management of CF is found well performing, the evaluation team shall recommend for further third term management.

## PART B: By-Laws

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### Membership Arrangement

**Name of CFMG:** Domkhar Lhuendupcholing.

Resident households from Domkhar village fulfilling the following criteria;

- Holding valid Citizenship Identity Card
- Holding *Thram* and *Gung*

#### New Membership

- Any household wishing to join the CFMG shall be accepted by paying Nu.3000/- at the time of revision
- No new member shall be allowed to join the CFMG after the revision of this management plan.

#### Resignation from membership

Withdrawal from membership shall be allowed as per the interest of the CFMG members on the following terms and conditions;

- He/she should write resignation application to Chairperson and in turn Chairperson shall seek acceptance from the rest of CFMG members.
- Member resigning voluntarily without availing timber from CF shall be allowed to resign by paying Nu.3000/- without any benefits.
- Member resigning due to unavoidable circumstances shall be allowed to resign upon decision of CFMG committee.
- Member willing to resign after availing timber benefits from CF shall be allowed based on the decision of CFMG committee.

### Management Committee Formation

The CFMG shall form ten members to function as Management Committee. The committee will be the highest decision-making body of CF management. Following are the members of CF management committee;

1. Chairperson :
2. Secretary :
3. Treasurer :
4. Tshogpa : (Zingbee 1, Phojab 1, Domkhar 4, Burap & Birchey 1)

Sl.#.	Designation	Name	Village	Contact number
1	Chairperson	Tshering Samdrup	Domkhar	17718371
2	Secretary	Choki Yangchen	Domkhar	77424330
3	Treasurer	Dechen	Domkhar	17363167
4	Tshogpa1	Cheki Wangchuk	Zingbee	17426837
5	Tshogpa2	Tenzin Nidup	Domkhar	77259218
6	Tshogpa3	Tshering Dorji	Domkhar	17745878
7	Tshogpa4	Tshewang Lhazom	Domkhar	77791151
8	Tshogpa5	Chingmo	Domkhar	77627745
9	Tshogpa6	Dechen Dema	Domkhar	77310592
10	Tshogpa7	Tashi Dorji	Domkhar	16915221

### **Terms of reference for CFMG management committee**

- The elected CF Management Committee shall function smoothly for the welfare of CFMG and development of CF.
- Shall supervise, coordinate and monitor the CF activities.
- Make decisions for ad-hoc activities
- Timber allotment and approvals
- Approval and disbursement of loans
- Review by-laws and management plan
- Ensure proper management and utilization of CF funds.
- Take lead role in planning, implementing and evaluating CF activities.
- Maintain proper records for any kind of CF activities.
- Resolve conflicts and disputes within CFMG level.
- Seek technical support from the stakeholders when required.
- Ensure equitable distribution of forest produce to CFMG.
- Responsible for enforcing the bylaws of the CFMG

### **Tenure of management committee**

CFMG executive committee members shall serve for five years. Any committee members propose for resignation due to unavoidable domestic problems shall be accepted with proper justification in due process. He/she will have to put up his/her resignation in writing to Chairperson who will in turn consult CFMG member during general meeting. Based on the general decision, he/she will be considered after proper handing-taking of his/her responsibilities after the new member is elected.

### **Incentives for the Management Committee**

Following incentives shall be eligible for the committee members;

- Committee members shall be paid Nu. 500/- while attending the office or in the field. A peon book shall be maintained for record.
- On official tour outside dzongkhag shall be paid DSA of Nu. 650/- and mileage as per government entitlement. If DSA is paid by the concerned office, equivalent amount shall be adjusted at par Nu. 650/-.

### **ToR of Chairperson**

Name: Tshering Samdrup, Mobile # 17718371

- Coordinate and organize CF development activities
- Preside over CF meeting as and when convenes
- Approving authority for fund mobilization and timber allotment
- CF networking with relevant agencies
- Settlement of disputes related to CF activities
- Compound illegal cases related to CF
- Authorize Secretary to officiate in his absences to attend CF meeting.
- Explore market for sale of CF produce
- Attend meetings related to CF management both within and outside Dzongkhag.
- Seek support from the government for development purpose of CF
- Present the progress and the expenditure statement to the CFMG
- Joint signatory to CFMG savings accounts together with treasurer
- Provide clearances during the development activities in CF
- Submit annual CF development work plans to CFO
- Monitoring and evaluation of CF activities

- Act as the head of disbursing the payment
- 

ToR for Secretary

Name: Choki Yangchen, Mobile # 77424330

- Officiate Chairperson during his absence
- Maintain records and correspondence
- Maintain the minutes of meeting
- Maintain labour register and take attendance while in the work
- Issue of collection permit
- Explore market for sale of CF produce
- Assist and facilitate loan application /agreement drawing, membership joining /resignation, CF handing taking charge note, maintain inventory of CF facilities etc.
- Prepare annual work plan and progress report in consultation with CFMG management committee and report accordingly

ToR for Treasurer

Name: Dechen, Mobile # 17363167

Maintain book of account

- Look after any financial transactions on behalf of CFMG
- Collect annual fees and deposit in the common account
- Present accounts to the CFMG during annual meetings
- Joint signatory for transaction of CF fund
- Issue of money receipt
- Maintain permit issue book
- Prepare the annual financial report

### **Roles and Responsibility of CFMG**

- To follow the procedures and rules of the CFMG as outlined in the CFMP and bylaws.
- Participation in CFMG planning and decision-making process
- Election of CF management Committee members
- Participation in drafting of the CF management plan and bylaws.
- Participation in CFMG general meetings.
- Cooperation with the CF management Committee in carrying forest management and other management operations especially by contributing labor if required

### **Fees for forest produces**

Sl. No.	Forest products	Fees (Nu.)	Remarks	Commercial (Outsiders)
	Membership fee	100/-		
1	Drashing	40/-	Per standing tree	Shall be decided by the Management Committee
2	Cham	30/-	Per standing tree	
3	Tsim	15/-	Per standing tree	
4	Dangchung	15/-	Per standing tree	
5	Flag poles	10/-	Per standing tree	
6	Fencing post	15/-	Per standing tree	



7	Flag poles	5/-	Per standing tree	Shall not be sold
8	Firewood	20/-	Per standing tree. If sold, price shall be fixed by the management committee	
9	Mushroom	100/-		Nu.500/- per permit

### Fines and Penalties

The committee members will be responsible to impose fines and penalties against all illegal activities in the CF as follows:

Sl.#.	Products	Fines (Nu.)	Compensation
1	Timber/Firewood	416(1) of FNCRR, 2017	As per prevailing NRPC rate.
5	Taking mushroom and fern from forest	Nu. 500/- per occasion	As per prevailing market value
7	Absent from CF developmental work	Nu. 600/- per day	
8	Absent from CF meetings	Nu. 100/- per day	If late, Nu. 50/- . If absent for 3 consecutive occasion Nu. 500/ shall be levied.
9	Poaching wildlife	As per FNCRR, 2017	
12	Forest fire outbreak	As per FNCRR, 2017	
13	Misuse of CF fund by Office bearers	Settle audit memo by the defaulter and abide by the provision of Financial Act of Bhutan	

### Financial arrangements

CFMG management committee and Treasurer in particular will be responsible to properly manage the CF fund. The possible sources of fund for CFMG are;

- Membership fees
- Collection fees for forest resources
- Sale of surplus timber
- Fines and compensations
- Sale of services (PES Schemes from water)
- Donations and interest from loan

Any financial transactions should be authenticated by joint signatory with minutes of meeting endorsed by CF management committee.

CFMG can utilize their fund based on resolution of general meeting and on priority basis. They shall utilize the CF fund for following purposes. If the area of expenditure has to be made beyond following listed purposes, approval from CFO will be required.

- 20% for CF development activities (CF review, Thinning, cleaning, salvage operations, boundary clearing and forest fire line creation)
- 30% for CFMG enhancement (loan, networking, meeting and capacity development, roofing CFMG office with CGI sheets, study tours and enterprise development)
- 20% (Social and community development)
- 5% as reserve fund in the bank
- 25% for others (*Zhingdrup, Domkhar Drup, Kangjur, Semsoo* (during disasters))
- Loaning procedures will be followed as per Annexure 9 and 10 of Forestry Field Manual for Bhutan, Community Forestry Manual, Third edition, 2018.

### Fund Management

- The account shall be operated under joint signatory of the CF Chairperson and the Treasurer as per by laws.
- Money receipts should be issued for all payments received
- All money received should be recorded in the Cash Book by the Treasurer
- There should not be any over-writing and tearing of pages in the record keeping book and money receipts including permit books.
- All financial records should be made available to authorized auditing team /inspection team at any time.

### Loaning

- Interest 4%
- Loan disbursement shall be decided by Management Committee
- Loan ceiling of not more than Nu. 50,000/-
- Repayment period of one year (both principal and interest).
- Penalty: Withheld allotment of forest resources for that year, however, the penalties charge shall not exceed 24% per annum as per financial rules.
- Mortgage: Relevant mortgage (land, machineries, cattle, etc). The minimum mortgage value shall be 150% of the loan amount and it shall be assessed by the CF management committee prior to loan approval.
- The interest rate should not exceed 15% per annum in accordance with section 17 (1) of the Movable and Immovable Property Act of Bhutan 1999.

### Benefit Sharing

- All CFMG members shall be entitled to get any forest products on need basis.
- Timber, poles, flagpoles, and firewood shall be allotted on **standing volume basis**. However, 'number of trees' reflected in this management plan shall be used for reference during annual allotment.
- Marking shall be felled by experienced chain saw operator and must be sawn at site within the validity period
- Benefits and resources shall be shared among the CFMG on equitable basis.
- The quantity of timber shall not be exceeding the AAC and shall be allotted based on genuineness of requirement.
- During the calamities such as earthquake, flood, pandemic or any disasters CFMG shall provide *Semsoo* in the form of timber or cash whichever is convenient. Such decisions should be made upon emergency meeting of CFMG Committee.
- Loaning of CF fund within members shall be approved upon verification and review by management committee.

- The resource sharing (timber/firewood) shall not be allotted on ‘**quota system**’ rather do so on equity basis.
- Timber allotted to CFMG member shall not be allowed for commercial purposes.
- Contribution for the welfare of disadvantaged member of CFMG shall be made on situation of need and requirement. The disadvantage household will be considered from paying annual membership fees and loan interest if possible but will be decided by the committee members.
- Timber allotment shall be approved only on received of construction approval from the Gewog Administration.

#### **Periodicity of timber allotment**

- New construction: 25 years
- Renovation: 12 years

### **Meeting**

#### ***General meeting***

The CFMG shall conduct general meeting twice a year. The 1<sup>st</sup> meeting shall convene in the month of January and 2<sup>nd</sup> in July. The chairman shall call for meeting more than twice if need arises to discuss and endorse the following: The committee meeting will be conducted for a minimum of three times a year.

- Prepare annual work plan
- Review the progress of the past year
- Present CFMG fund status
- Develop strategies to generate CFMG fund
- Benefits sharing
- Issue collection permits
- Discuss on constraints and issues

### **Conflict Management**

Any dispute related to CF shall be resolved by the Chairperson in presence of the committee members. The chairman shall forward the case to the Gewog Administration in case of failure to resolve at his capacity and thereafter to higher authority.

### **Amendment of CFM plan and by-laws**

The CFMG shall seek the approval with written application addressed to CFO, Bumthang Division for the amendment of the CFM plan/by-laws. The proposed amendment of CFM plan/by-laws should be supported by minutes of general meeting of CFMG duly signed thereof.

## Revision of CFMP

The revision of management plan shall be carried out during the last quarter of the 9<sup>th</sup> year of management plan period. The approval of the revised CF plan shall be subject to findings of the final evaluation of the CF implementation for the past 10 years.

## Power of the 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:

- i. Take action against violators of the Act, Rules or Management Plan, regardless of whether requested by the CFMG or not.
- ii. 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.
- iii. Cancellation/suspension/reinstatement of CF Certificates shall be dealt as per the provisions of FNCRR, 2017 (Section 102, 103, 104, 105(1&2), 106 & 107 (1, 2 &3)).
- iv. In accordance with Section 90 of the FNCRR 2017, Marking of trees shall be carried out by concerned Forest Officer as per management plan. The marking and passing hammer shall be under the custody of nearest Range Office for proper safety.

## Annexure 1: List of CFMG members

Sl.No	Name of Household Representative	CID No.	House No.	Thram No
1	Gyem Dorji	10102000598	Ka-2-76	11
2	Tshering Phuntsho	12001002557	Ka-2-413	417
3	Cheki Delma	10102000486	Ka-2-68	7
4	Sangay Wangdi	10102000648	Ka-2-82	1
5	Chezom (Ka)	10102000423	Ka-2-62	19
6	Pema Chezom	10102002970	Ka-2-80	23
7	Karma Chedon	10102000544	Ka-2-73	4
8	Tshering Wangmo	10102000563	Ka-2-74	736
9	Dawa Delma	10102000522	Ka-2-71	29
10	Karma Youdon	10102000507	Ka-2-70	22
11	Tashi Dorji	1010200047	Ka-2-66	35

12	Tshewang Lhamo	10102000510	Ka-2-410	676
13	Gyempo Tenzin	10102000692	Ka-2-85	8
14	Lagname	10102000405	Ka-2-61	14
15	Cheki Yangchen	10102000719	Ka-2-88	12
16	Sangay Zangmo	10102000670	Ka-2-343	34
17	Thinley	11701001326	Ka-2-404	424
18	Jangchub	10102000607	Ka-2-77	24
19	Sithermo	10102000613	Ka-2-78	333
20	Kuchungmo	10102000452	Ka-2-65	26
21	Sangay Wangmo	111020006624	Ka-2-347	403
22	Chezom (kha)	10102000679	Ka-2-83	650
23	Chingmo	10102000586	Ka-2-65	27
24	Lhamo Tenzin	10102000434	Ka-2-63	18
25	Tenzin	10102000548	Ka-2-411	762
26	Phomo	10102000444	Ka-2-64	33
27	Sangna mo	10102000703	Ka-2-87	9
28	Karma Jangchub	10102000686	Ka-2-84	10
29	Tshering Samdrup	10102000541	Ka-2-72	632
30	Sonam Chedon	10102000693	Ka-2-86	25
31	Dechen Yangzom	10102000389	Ka-2-25	340
32	Kelzang Dorji	10102000720	Ka-2-284	399
33	Cheten Lhamo	10102000731	Ka-2-286	415
34	Pema Gyeltshen	10102000424	Ka-2-419	724
35	Pabitra Mongar	11308003978	Ka-2-414	451
36	Deki Wangmo	10102002607	Ka-2-415	853
37	Taumo	10102000493	Ka-2-69	20
38	Delkar	10102000696	Ka-2-143	581
39	Cheki Wangchuk	10102000478	Ka-2-67	30
40	Yeshe Dorji	10102000498	Ka-2-307	552
41	Tshewang Lhazom	10102000651	Ka-2-322	715

42	Sangay Lhamo	10102000497	Ka-2-422	591
43	Rinzin Wangmo	10102000637	Ka-2-81	16

## Annexure II. CF boundary GPS Coordinates

Plot ID	Northing	Easting		Plot ID	Northing	Easting
1	27.48826	90.65453		56	27.48707	90.66832
2	27.48824	90.65704		57	27.48707	90.66958
3	27.48824	90.65829		58	27.48706	90.67083
4	27.48718	90.64449		59	27.48705	90.67209
5	27.48718	90.64574		60	27.48595	90.66832
6	27.48717	90.64825		61	27.48595	90.66957
7	27.48714	90.65327		62	27.48594	90.67083
8	27.48714	90.65452		63	27.48593	90.67208
9	27.48713	90.65578		64	27.48593	90.67334
10	27.48712	90.65703		65	27.48592	90.67459
11	27.48712	90.65829		66	27.48592	90.67585
12	27.48711	90.66080		67	27.48591	90.67710
13	27.48607	90.64322		68	27.48590	90.67836
14	27.48606	90.64448		69	27.48483	90.66831
15	27.48605	90.64824		70	27.48483	90.66957
16	27.48604	90.64950		71	27.48482	90.67082
17	27.48604	90.65075		72	27.48482	90.67208
18	27.48602	90.65326		73	27.48481	90.67333
19	27.48602	90.65452		74	27.48480	90.67458
20	27.48601	90.65577		75	27.48480	90.67584
21	27.48601	90.65703		76	27.48479	90.67709
22	27.48600	90.65828		77	27.48478	90.67835
23	27.48599	90.65954		78	27.48477	90.68086
24	27.48495	90.64322		79	27.48371	90.66956
25	27.48495	90.64447		80	27.48370	90.67081
26	27.48493	90.64698		81	27.48370	90.67207
27	27.48493	90.64824		82	27.48369	90.67332
28	27.48492	90.64949		83	27.48368	90.67458
29	27.48492	90.65075		84	27.48368	90.67583
30	27.48491	90.65200		85	27.48367	90.67709
31	27.48490	90.65326		86	27.48367	90.67834
32	27.48490	90.65451		87	27.48366	90.67960
33	27.48489	90.65576		88	27.48365	90.68085
34	27.48489	90.65702		89	27.48365	90.68211
35	27.48488	90.65827		90	27.48259	90.66955
36	27.48488	90.65953		91	27.48258	90.67081
37	27.48383	90.64321		92	27.48258	90.67206

38	27.48383	90.64447		93	27.48257	90.67332
39	27.48382	90.64572		94	27.48257	90.67457
40	27.48382	90.64698		95	27.48256	90.67583
41	27.48381	90.64823		96	27.48255	90.67708
42	27.48380	90.64949		98	27.48254	90.67959
43	27.48380	90.65074		99	27.48253	90.68084
44	27.48379	90.65199		100	27.48145	90.67331
45	27.48376	90.65827		101	27.48145	90.67456
46	27.48271	90.64321		102	27.48144	90.67582
47	27.48271	90.64446		103	27.48143	90.67707
48	27.48270	90.64571		104	27.48143	90.67833
49	27.48270	90.64697		105	27.48142	90.67958
50	27.48269	90.64822		106	27.48142	90.68084
51	27.48268	90.64948		107	27.48032	90.67707
52	27.48268	90.65073		108	27.48031	90.67832
53	27.48158	90.64696		109	27.48030	90.67958
54	27.48818	90.66959		110	27.48030	90.68083
55	27.488178	90.6708411				

### Annex III. Stand and Stock Table (Trees) -Zingbee block

STAND & STOCK TABLE SHEET 1 - NUMBER OF TREES														
1. Name of CF : Domkhar Lhendupcholing														
2. Species Group: Bluepine														
3. No of Plots: 56														
4. Block Name: Zingbee														
5. 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	%
Bluepine	56.43	77.14	67.86	32.50	6.43	2.14							242.50	97.28%
Hemlock		1.79	2.50	1.79	0.36	0.36							6.79	2.72%
Total conifer	56.43	78.93	70.36	34.29	6.79	2.50							249.29	100.00%



<b>total broadleaf</b>														
<b>total all species</b>	<b>56.43</b>	<b>78.93</b>	<b>70.36</b>	<b>34.29</b>	<b>6.79</b>	<b>2.50</b>							<b>249.29</b>	<b>100.00%</b>
<b>%</b>	<b>0.23</b>	<b>0.32</b>	<b>0.28</b>	<b>0.14</b>	<b>0.03</b>	<b>0.01</b>							<b>100.00 %</b>	

#### Annexure IV: Stand and stock table (T-tree)-Zingbee Block

STAND & STOCK TABLE SHEET 2 - BASAL AREA														
1. Name of CF:		Domkhar												
Lhendupcholing														
2. Species Group		Bluepine												
3. No of plots		56												
3. Name of Block		Zingbee												
4. estimated parameter		: Average Basal Area per Ha (m2/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	%
Bluepine	0.96	3.63	6.31	5.07	1.50	0.70							18.16	95.81%
Hemlock		0.08	0.23	0.28	0.08	0.12							0.80	4.19%
								</						

<b>total broadleaf</b>														
<b>total all species</b>	<b>0.96</b>	<b>3.71</b>	<b>6.54</b>	<b>5.35</b>	<b>1.58</b>	<b>0.82</b>							<b>18.96</b>	<b>100.00%</b>
<b>%</b>	<b>0.05</b>	<b>0.20</b>	<b>0.35</b>	<b>0.28</b>	<b>0.08</b>	<b>0.04</b>							<b>100.00%</b>	

# Annexure V: Stand and stock table (T-trees) Zingbee block

STAND & STOCK TABLE SHEET 3 - VOLUME														
1. Name of CF:        Domkhar Lhendupcholing														
2. Species Group     Bluepine														
3. No of plots:        56														
3. Name of Block:    Zingbee														
4. Estimated parameter:   Average Volume per Ha (m3/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	%
Bluepine	5.38893	26.9229	56.1518	51.4475	17.1	8.78464							165.80	97.19%
Hemlock		0.41875	1.30625	1.70268	0.55071	0.82232							4.80	2.81%
total conifer	5.39	27.34	57.46	53.15	17.65	9.61							170.60	100.00%

<b>total broadleaf</b>														
<b>total all species</b>	<b>5.39</b>	<b>27.34</b>	<b>57.46</b>	<b>53.15</b>	<b>17.65</b>	<b>9.61</b>							<b>170.60</b>	<b>100.00%</b>
<b>%</b>	<b>0.03</b>	<b>0.16</b>	<b>0.34</b>	<b>0.31</b>	<b>0.10</b>	<b>0.06</b>							<b>100.00 %</b>	

# Annexure VI: Stand and stock table \_T-trees)- Duegang block

STAND & STOCK TABLE SHEET 1 - NUMBER OF TREES														
1. Name of CF: Domkhar Lhendupcholing														
2. Species Group Bluepin e														
3. No of Plots: 53														
4. Block Name: Duegang														
5. 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	%
Bluepine	128.68	93.96	107.92	48.68	7.17	1.89	0.75						389.06	92.38%
Hemlock	2.26	5.28	2.26	0.75									10.57	2.51%
Spruce	8.68	5.28	4.91	1.89	0.38				0.38				21.51	5.11%
Total conifer	139.62	104.53	115.09	51.32	7.55	1.89	0.75		0.38				421.13	100.00%

total broadleaf														
total all species	139.62	104.53	115.09	51.32	7.55	1.89	0.75		0.38				421.13	100.00%
%	0.33	0.25	0.27	0.12	0.02	0.00	0.00		0.00				100.00%	

### Annexure VII: Stand and Stock Table (T-trees)- Duegang Block

STAND & STOCK TABLE SHEET 2 - BASAL AREA														
<p>1. Name of CF : Domkhar Lhendupcholing</p> <p>2. Species Group: Bluepine</p> <p>3. No of plots: 53</p> <p>3. Name of Block: Duegang</p> <p>4. estimated parameter: Average Basal Area per Ha (m2/ha)</p>														
<p style="text-align: right;">(report all values to 2 decimals)</p>														
<p style="text-align: center;"><i>Dbh class (cm)</i></p>														

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	%
Bluepine	2.19	4.42	10.04	7.59	1.67	0.62	0.33						26.85	92.70%
Hemlock	0.04	0.25	0.21	0.12									0.62	2.12%
Spruce	0.15	0.25	0.46	0.29	0.09				0.26				1.50	5.17%
<b>Total conifer</b>	<b>2.37</b>	<b>4.91</b>	<b>10.70</b>	<b>8.01</b>	<b>1.76</b>	<b>0.62</b>	<b>0.33</b>		<b>0.26</b>				<b>28.97</b>	<b>100.00%</b>
<b>total broadleaf</b>														
<b>total all species</b>	<b>2.37</b>	<b>4.91</b>	<b>10.70</b>	<b>8.01</b>	<b>1.76</b>	<b>0.62</b>	<b>0.33</b>		<b>0.26</b>				<b>28.97</b>	<b>100.00%</b>



%	0.08	0.17	0.37	0.28	0.06	0.02	0.01		0.01				100.00 %	
---	------	------	------	------	------	------	------	--	------	--	--	--	-------------	--

### Annexure VIII: Stand and stock table (T-trees)-Duagang

STAND & STOCK TABLE SHEET 3 - VOLUME														
1. Name of CF:     Domkhar Lhendupcholing														
2. Species Group:    Bluepine														
3. No of plots:        53														
3. Name of Block:    Duegang														
4. estimated parameter: Average Volume per Ha (m3/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	%
Bluepine	12.28 89	32.79 28	89.30 75	77.05 92	19.07 17	7.734 91	4.48 34						242.74	92.80%
Hemlock	0.160 75	1.238 87	1.183 02	0.719 62									3.30	1.26%
Spruce	0.915 66	1.981 13	4.292 45	3.122 64	1.039 81				4.18				15.53	5.94%

total conifer	13.37	36.01	94.78	80.90	20.11	7.73	4.48		4.18				261.57	100.00%
total broadleaf														
total all species	13.37	36.01	94.78	80.90	20.11	7.73	4.48		4.18				261.57	100.00%
%	0.05	0.14	0.36	0.31	0.08	0.03	0.02		0.02				100.00 %	

# Annexure IX: Stand and stock table (N-trees)- Zingbee block

STAND & STOCK TABLE SHEET 1 - NUMBER OF TREES														
1. Name of CF: Domkhar Lhendupcholing														
2. Species Group: Bluepine														
3. No of Plots 56														
4. Block Name: Zingbee														
5. 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	%
Blue Pine	1.79	2.86	2.50	1.07	2.50	0.71							11.43	45.07%
Hemlock	1.07	2.86	1.79	0.71	0.36								6.79	26.76%
Spruce	1.43	2.14	1.07		0.36								5.00	19.72%

<b>Total conifer</b>	<b>4.29</b>	<b>7.86</b>	<b>5.36</b>	<b>1.79</b>	<b>3.21</b>	<b>0.71</b>							<b>23.21</b>	<b>91.55%</b>
Betula	2.14												2.14	8.45%
<b>total broadleaf</b>	<b>2.14</b>												<b>2.14</b>	<b>8.45%</b>
<b>total all species</b>	<b>6.43</b>	<b>7.86</b>	<b>5.36</b>	<b>1.79</b>	<b>3.21</b>	<b>0.71</b>							<b>25.36</b>	<b>100.00%</b>
<b>%</b>	<b>0.25</b>	<b>0.31</b>	<b>0.21</b>	<b>0.07</b>	<b>0.13</b>	<b>0.03</b>							<b>100.00%</b>	

#### Annexure X: Stand and stock table (N-trees)- Zingbee block

STAND & STOCK TABLE SHEET 2 - BASAL AREA			
1. Name of CF:	Domkhar		
Lhendupcholing			
2. Species Group:	Bluepine		
3. No of plots:	56		
3. Name of Block:	Zingbee		

**4. estimated parameter: Average Basal Area per Ha  
(m<sup>2</sup>/ha)**

*(report all values to 2  
decimals)*

<i>Dbh class (cm)</i>														
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	%
Bluepine	0.03	0.13	0.23	0.17	0.58	0.23							1.38	61.68%
Hemlock	0.02	0.13	0.17	0.11	0.08								0.51	22.93%
Spruce	0.02	0.10	0.10		0.08								0.31	13.76%
<b>Total conifer</b>	<b>0.07</b>	<b>0.37</b>	<b>0.50</b>	<b>0.28</b>	<b>0.75</b>	<b>0.23</b>							<b>2.20</b>	<b>98.37%</b>
Betula	0.04												0.04	1.63%
<b>total broadleaf</b>	<b>0.04</b>												<b>0.04</b>	<b>1.63%</b>

total all species	0.11	0.37	0.50	0.28	0.75	0.23							2.24	100.00%
%	0.05	0.17	0.22	0.12	0.33	0.10							100.00%	

### Annexure XI: Stand and stock table (N-trees)- Zingbee Block

STAND & STOCK TABLE SHEET 3 - VOLUME														
1. Name of CF:     Domkhar Lhendupcholing														
2. Species Group: Bluepine														
3. No of plots:     56														
3. Name of Block: Zingbee														
4. estimated parameter:   Average Volume per Ha (m3/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	%
Bluepine	0.13	0.67	1.31	1.02	3.86	1.64							8.62	59.00%
Hemlock	0.08	0.67	0.93	0.68	0.55								2.91	19.91%
Spruce	0.15	0.80	0.94		0.98								2.88	19.68%

<b>total conifer</b>	<b>0.35</b>	<b>2.14</b>	<b>3.18</b>	<b>1.70</b>	<b>5.39</b>	<b>1.64</b>							<b>14.41</b>	<b>98.59%</b>
Betula	0.21												0.21	1.41%
<b>total broadleaf</b>	<b>0.21</b>												<b>0.21</b>	<b>1.41%</b>
<b>total all species</b>	<b>0.56</b>	<b>2.14</b>	<b>3.18</b>	<b>1.70</b>	<b>5.39</b>	<b>1.64</b>							<b>14.62</b>	<b>100.00%</b>
<b>%</b>	<b>0.04</b>	<b>0.15</b>	<b>0.22</b>	<b>0.12</b>	<b>0.37</b>	<b>0.11</b>							<b>100.00%</b>	

#### Annexure XII: Stand and stock table (N-trees)- Duegang block

STAND & STOCK TABLE SHEET 1 - NUMBER OF TREES			
1. Name of CF:	Domkhar Lhendupcholing		
2. Species Group:	Bluepine		
3. No of Plots:	53		
4. Block Name:	Duegang		

5. estimated parameter: Average Number of  
Trees per Ha

(report all values to 2  
decimals)

<i>Dbh class (cm)</i>														
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	%
Blue Pine	3.02	1.13	3.02	0.38	0.75								8.30	51.16%
Hemlock	0.38	1.51	0.38	0.75									3.02	18.60%
<b>Total conifer</b>	<b>3.40</b>	<b>2.64</b>	<b>3.40</b>	<b>1.13</b>	<b>0.75</b>								<b>11.32</b>	<b>69.77%</b>
Rhodo	2.64												2.64	16.28%
Betula	2.26												2.26	13.95%
<b>total broadleaf</b>	<b>4.91</b>												<b>4.91</b>	<b>30.23%</b>



total all species	8.30	2.64	3.40	1.13	0.75								16.23	100.00%
%	0.51	0.16	0.21	0.07	0.05								100.00%	

### Annexure XIII. Stand and stock table (N-trees)- Duegang block

STAND & STOCK TABLE SHEET 2 - BASAL AREA														
1. Name of CF :        Domkhar Lhendup														
2. Species Group: Bluepine														
3. No of plots:        53														
3. Name of Block:    Duegang														
4. estimated parameter : Average Basal Area per												(report all values to 2		
Ha (m2/ha)												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	%
Bluepine	0.05	0.05	0.28	0.06	0.18								0.62	66.41%
Hemlock	0.01	0.07	0.04	0.12									0.23	24.66%

<b>Total conifer</b>	<b>0.06</b>	<b>0.12</b>	<b>0.32</b>	<b>0.18</b>	<b>0.18</b>								<b>0.85</b>	<b>91.07%</b>
Rhodo	0.04												0.04	4.81%
Betula	0.04												0.04	4.12%
<b>total broadleaf</b>	<b>0.08</b>												<b>0.08</b>	<b>8.93%</b>
<b>total all species</b>	<b>0.14</b>	<b>0.12</b>	<b>0.32</b>	<b>0.18</b>	<b>0.18</b>								<b>0.93</b>	<b>100.00%</b>
<b>%</b>	<b>0.15</b>	<b>0.13</b>	<b>0.34</b>	<b>0.19</b>	<b>0.19</b>								<b>100.00 %</b>	

#### Annexure IVX: Stand and stock table (N-trees)- Duegang block

STAND & STOCK TABLE SHEET 3 - VOLUME																													
1. Name of CF: Domkhar Lhendupcholing																													

2. Species Group: Bluepine

3. No of plots: 53

3. Name of Block: Duegang

4. estimated parameter: Average Volume per Ha  
(m3/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	%
Bluepine	0.21	0.27	1.58	0.36	1.16								3.58	67.67%
Hemlock	0.03	0.35	0.20	0.72									1.30	24.52%
total conifer	0.24	0.62	1.77	1.08	1.16								4.88	92.20%
Rhodo	0.20												0.20	3.69%
Betula	0.22												0.22	4.11%

<b>total broadleaf</b>	<b>0.41</b>												<b>0.41</b>	<b>7.80%</b>
<b>total all species</b>	<b>0.65</b>	<b>0.62</b>	<b>1.77</b>	<b>1.08</b>	<b>1.16</b>								<b>5.29</b>	<b>100.00%</b>
<b>%</b>	<b>0.12</b>	<b>0.12</b>	<b>0.34</b>	<b>0.20</b>	<b>0.22</b>								<b>100.00%</b>	

*Annexure <sup>VI</sup> ~~III~~: Application to Establish Community Forest*

ROYAL GOVERNMENT OF BHUTAN  
MINISTRY OF AGRICULTURE & FORESTS  
Department of Forests & Park Services

## APPLICATION TO ESTABLISH COMMUNITY FOREST

**PART A** *(To be filled by the applicant)*

Dasho Dzongdag

The GUP ( $\bar{y}^a$ )

In accordance with the Forest and Nature Conservation Rules and Regulations, 2017, I, Donkha (P.O. 26.15) Panchayat, the Chairman of the Community Forest Management Group of 43 (42) villages(s) consisting of 43 (42) households, would like to submit this application for establishment of Community Forest. (map attached)

- a) Gewog:.....

- b) Description of the State Forest land proposed for establishment of Community Forest:

- (i) Name of the forest: ಕೊಡಗು ಮಲೆನಾಡು ಮಲೆನಾಡು ಮಲೆನಾಡು ಮಲೆನಾಡು

- (ii) Boundary description:

N ..... ਪ੍ਰਬੀਰ ਸਿੰਘ ..... ਤੁਹਾਡੇ ਭਾਈ/ਨੀਤੀ/... ..... ਪ੍ਰਗਤੀਸ਼-ਮਾਧਾਨੀ

S ..... 2018-2019 ..... 2018-2019

E ..... உயிரி-மர இனம் - பூஞ்சை-இனம் .....

W ..... ସୂଚୀ-କ୍ରମ-ସଂଖ୍ୟା-ସଂଖ୍ୟା-ସଂଖ୍ୟା-ସଂଖ୍ୟା

- (iii) Estimated area: ..... acres

- (iv) Forest type: ..... 29. Ficus religiosa .....

Signature: \_\_\_\_\_

Name of the CFMG Chairman:.....

Date 12-02-2022









Annexure VII (continued)

COMMUNITY FOREST MANAGEMENT GROUP MEMBERSHIP

Sl.No.	Name of Household Representative	CID Card No:	House No.	Thram No. (If applicable)	Signature
1	කුමාරසිංහ	101030004	12-3/15	11	
2	කුමාරසිංහ	101030004	12-3/15	12	
3	කුමාරසිංහ	101030004	12-3/15	13	
4	කුමාරසිංහ	101030004	12-3/15	14	
5	කුමාරසිංහ	101030004	12-3/15	15	
6	කුමාරසිංහ	101030004	12-3/15	16	
7	කුමාරසිංහ	101030004	12-3/15	17	
8	කුමාරසිංහ	101030004	12-3/15	18	
9	කුමාරසිංහ	101030004	12-3/15	19	
10	කුමාරසිංහ	101030004	12-3/15	20	
11	කුමාරසිංහ	101030004	12-3/15	21	

Annexure VII (continued)

COMMUNITY FOREST MANAGEMENT GROUP MEMBERSHIP

Sl.No.	Name of Household Representative	CID Card No:	House No.	Thram No. (If applicable)	Signature
၅၃	မိုးအေးအေး	၅၀၇၀၃၀၀၀၅၁၀	၇-၃/၂၇၀	၆၃၆	
၅၃	မိုးအေးအေး	၅၀၇၀၃၀၀၀၅၁၁	၇-၃/၂၇၁	၀၄	
၅၄	မိုးအေးအေး	၅၀၇၀၃၀၀၀၅၁၂	၇-၃/၂၇၂	၇၄	
၅၅	မိုးအေးအေး	၅၀၇၀၃၀၀၀၅၁၃	၇-၃/၂၇၃	၇၅	
၅၆	မိုးအေးအေး	၅၀၇၀၃၀၀၀၅၁၄	၇-၃/၂၇၄	၃၄	
၅၇	မိုးအေးအေး	၅၀၇၀၃၀၀၀၅၁၅	၇-၃/၂၇၅	၄၃၆	
၅၈	မိုးအေးအေး	၅၀၇၀၃၀၀၀၅၁၆	၇-၃/၂၇၆	၃၄	
၅၉	မိုးအေးအေး	၅၀၇၀၃၀၀၀၅၁၇	၇-၃/၂၇၇	၃၃၃	
၆၀	မိုးအေးအေး	၅၀၇၀၃၀၀၀၅၁၈	၇-၃/၂၇၈	၃၆	



Annexure VII (continued)

COMMUNITY FOREST MANAGEMENT GROUP MEMBERSHIP

Sl.No.	Name of Household Representative	CID Card No:	House No.	Thram No. (If applicable)	Signature
29	မြတ်ဗျာ၊ မ	၇၇၇၀၃၀၀၆၃၉	၇-၃/၃၆၁	၃၀၃	
32	မောင်အောင်(က)	၇၇၇၀၃၀၀၆၇၇	၇-၃/၄၃	၆၇၀	
33	မိုးမ	၇၇၇၀၃၀၀၆၇၆	၇-၃/၁၇၇	၃၁	
3၄	မြတ်ဗျာအောင်	၇၇၇၀၃၀၀၆၃၉	၇-၃/၆၃	၇၄	
3၅	မြတ်ဗျာအောင်	၇၇၇၀၃၀၀၆၇၆	၇-၃/၁၇၇	၁၆၃	
3၆	မိုးမ	၇၇၇၀၃၀၀၆၇၆	၇-၃/၆၃	၃၃	
3၇	ကျေးဇူးကျေး	၇၇၇၀၃၀၀၆၇၆	၇-၃/၆၃	၁၉	
3၈	ကျေးဇူးကျေး	၇၇၇၀၃၀၀၆၇၆	၇-၃/၆၃	၇၀	
3၉	မောင်အောင်(က)	၇၇၇၀၃၀၀၆၇၆	၇-၃/၆၃	၆၃၃	
3၀	မောင်အောင်(က)	၇၇၇၀၃၀၀၆၇၆	၇-၃/၆၃	၃၆	



Annexure VII (continued)


COMMUNITY FOREST MANAGEMENT GROUP MEMBERSHIP

Sl.No.	Name of Household Representative	CID Card No:	House No.	Thram No. (If applicable)	Signature
31	අනුක්‍රීයා දිසානායක	90903000331	7-3/34	350	
32	අනුක්‍රීයා දිසානායක	90903000332	7-3/35	310	
33	අනුක්‍රීයා දිසානායක	90903000333	7-3/36	274	
34	අනුක්‍රීයා දිසානායක	90903000334	7-3/37	234	
35	අනුක්‍රීයා දිසානායක	90903000335	7-3/38	249	
36	අනුක්‍රීයා දිසානායක	90903000336	7-3/39	343	
37	අනුක්‍රීයා දිසානායක	90903000337	7-3/40	30	
38	අනුක්‍රීයා දිසානායක	90903000338	7-3/41	449	
39	අනුක්‍රීයා දිසානායක	90903000339	7-3/42	30	



*Annexure VII (continued)*

I have reviewed the application and hereby recommend for the formation of CF in the proposed area.

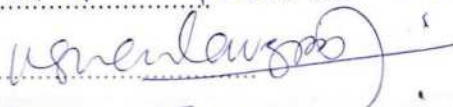
Name and Signature of Gup: ... Dampel   
Gewog: Chumey  
Date: .....

**PART B** (To be certified by Range Officer)

We have evaluated the area applied for and the qualifications of the group to manage it according to the criteria established in the Forest and Nature Conservation Rules and Regulations of Bhutan, 2017. We recommend/do not recommend, the application for establishment of the Community forest be approved.

Justification for approval/rejection:

1. CFMG implemented first CFMP successfully
2. The area is feasible and as per rules.

Signature: 

Name: Ugyen Tenzin

Name of Range: Chumey

Date: 12/02/2023

**PART C** (To be certified by the CFO)

I have reviewed the application and I am satisfied/not satisfied, that the details provided in the application are true and that the area is suitable for Community Forest Management. I accept/do not accept the application for establishment of Community Forest.

Justification:

1.....

2.....

Signature: .....

Name of CFO: Punkey Dupa .....

Division/Park: Bumthang .....

Date: .....