
Gadhen Drongyuel Community Forest

(དགའ་ལྷན་གྲོང་ཁྱེད་ལྷན་སྐྱོང་གི་རྩིས་འཛུགས་ཆེན་མོ་)

(*First Revision*)

Plan Period: 2023- 2033



(འཛིན་སྐྱོང་འཆར་གཞི་བསྐྱར་བཅོ་དང་པ་)

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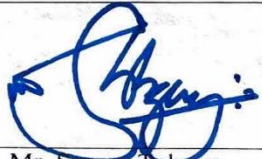
APPROVAL SHEET

Name of the community Forest	Gadhen Drongyuel Community Forest
No of CFMG Member	25
Village	Drachukha
Chiwog	Drachukha
Gewog	Goenshari
Dzongkhag	Punakha
Production Area (Ha)	149.02
Protection Area (Ha)	11.5
Total Community Forest Area (Ha)	160.52
Plan Period	July 2023 to June 2033


Prepared and submitted for approval

	Community Forest Group's representative	Forestry representative (CFMP Facilitator)	Geog Administration	Social Forestry Section	Division/Park Office
Signature					
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Reviewed and recommended for Approval

Signature		
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Division/Section	Forest Resources Planning and Implementation Section	Forest Resources Planning and Management Division

Approved by



Director

Department of Forests and Park Services

Approved vide Notesheet No.DoFPS/FRPMD/FRPIS/CF_1(C)/2022-2023/1186 on dated
June 13, 2023

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SUMMARY

Gadhen Drongyuel Community Forest was established in the year 2013. The CF plan was prepared with financial support of Participatory Forest Management Project (PFMP). It is in 2023, Gadhen Drongyuel Community Forest is into the 1st revision and it is prepared with financial support from Asian Forest Cooperation Organization (AFoCO) project in Bhutan, Department of Forests and Park Services (DoFPS). The past plan was reported to have few management issues including lack of capacity in permit issuance, record keeping and weak economic resilience. Nevertheless, the community forest benefited the community in many ways viz. establishing Group Saving Account, easier access to timber and conservation of soil and water resources. To address the prevailing issues regarding the overall CF management and record keeping, the management of JDNP trained selected representatives; especially the office bearers of CFs at Khuruthang in early 2022. Having understood the benefits of managing CF coupled with skills and experiences gained over the years the Drachukha community decided to revise the CF management plan for another 10 years with constructive attitude to improve the forest conditions, utilize the resources in a sustainable manner and enhance social development in the community.

Gadhen Drongyuel Community Forest is located at Drachukha Chiwog under Goenshari Gewog, Punakha Dzongkhag. It is connected with the farm road which is about 20 minutes' drive from the Gewog Centre. The Community Forest covers 160.52 hectares with 25 households forming the Community Forest Management Group (CFMG).

The community forest is divided into two blocks. The western block is called Churagang (Block I) and the Eastern block is known as Tshorim block (Block II). The forest type, condition and land use pattern are similar in both the blocks. However, there is a water source in the western block which will be protected by the CFMG. *Castanopsis*, *hystrix*, *Betula alnoides*, *Alnus nepalensis*, and *Macaranga species* are some of the main species in the area associated with the other broadleaved species.

In Churagang block (Block I), 26 prism sweeps and 26 quantitative forest resource assessment sample plots were measured. And 36 prism sweeps and 36 quantitative forest resource assessment sample plots were measured in Tshorim block (Block II). The mean basal area calculated was 11.60m²/ha in block I and 11.5m²/ha in block II. The crown

closure is more than 70% which indicates good forest with harvestable stock. Regeneration is abundant with both preferred and non-preferred timber species.

As per the quantitative forest resource assessment result the CFMG's annual demand can be fulfilled from this CF. The annual harvesting limit (AHL-299 nos. of trees) is higher than the actual requirement where CFMG can sell the surplus timber to generate income. However, to restock the area with the preferred species like walnut and champ in future the CFMG must do plantation in order to enhance its availability. Average Basal Area of CF: **21.895m²/ha** & AAC of CF is **299 trees** or **593.4m³**.

In order to enable the CFMG to implement the CF activities effectively and efficiently they instituted the executive members (elected committee members) that included at least one Resoop (local forest guard) since its establishment of the first management plan. The tenure for three executive members is for 3 years and 1 year for the Resoop. The new executive members shall be elected after completion of their term.

The collection of NWFPs like fern, mushroom, orchids etc. from the CF is free if it is for domestic consumption but for the commercial purposes the members have to obtain permit from the Chairperson. The Resoop shall monitor the collection of resources to ensure that members collect the resources sustainably with minimum damages to other resources including the regeneration.

There are two sections in this plan; Section A (Management Plan) and Section B (Bylaws). Section A consists of information gathered following the participatory approaches prescribed Community Forestry Manual 2018. It describes the resource availability, management prescription, activities and work plan. This section enables members to understand the condition of their forest and actions to be implemented. Section B is the legal document that is formulated in consultation with the CFMG members. It consists of rights and responsibilities of the members, terms of references (ToR) of the office bearers, royalties, fines and penalties. Therefore, this shall be the guiding document for the CF members to enhance optimum utilization of forest resources from the CF.

SECTION A

MANAGEMENT PLAN

Introduction Part A: Management Plan

Community forest is the paradigm shift from conventional forest management that provides rights and responsibilities for the local communities over control and access to the natural resources in their vicinity. It is a process wherein the community takes the rights and responsibility of managing the forest resources ensuring participation, accountability and decision making. The members define their goals and objectives to meet their needs and aspirations and can make decisions. The program has drawn significant attention since the 10th Five Year Plan (FYP) as a means to achieve the natural resource conservation goals and to improve the socio-economic condition of the rural people with an ultimate aim to contribute towards poverty reduction.

The Gadhen Drongyuel Community Forest is located at Drachukha Chiwog under Goenshari Gewog with an elevation ranging from 1800-3000 meters above the sea level (masl). It is within the vicinity of the settlement on gentle topography enriched by fertile soil that support growth of forest crops. It is connected with the farm road which is about 20 minutes' drive from the Gewog Centre.

The CFMG is comprised of 25 households and is the official custodians of that forest. The CF has an area of 160.52 hectares falling under the cool broadleaved forest with *Castanopsis hystrix*, *Betula alnoides*, and *Alnus nepalensis* as a dominant species. It has also some special class timber species like *Juglans regia*, *Morus species* and A class timber species like *Michelia champaca* that has potential for commercial marketing. The CF is divided into two blocks; **Block I** is named as Churagang which is located in western side and **Block II** is named as Tshorim which is located in eastern side of the settlement.

Overall Management objectives of the CF

- To improve the forest condition by protecting outsiders harvesting timber in the vicinity of the community.
- To have sustainable forest resources for future generations through plantation and protecting the forest from illegal activities.
- To generate income through sale of surplus timber like wind fallen, uprooted and mature trees.
- Protection of water sources through plantation and fencing.

The community forest was initiated after the application submitted by the 25 households of Drachukha village. The CF program was also discussed and endorsed in the Gewog Tshogdhu accordingly. The application was then approved by the Dzongkhag Administration and Park Manager of Jigme Dorji National Park to carry out the community forest management planning activities (Application for revision of the plan attested in Annexure for reference).

The community forest in Drachukha was established with financial support from the Royal Government of Bhutan (RGoB) in the year 2013 by the then Dzongkhag and Gewog forestry sector. During the establishment phase back in 2013 they received training and sensitizations related to community forest management planning. That was how they initiated the drafting of the management plan which finally got endorsed by the head of the Department. The plan was for ten years (2013- 2023). The Community Forest was named as Gadhen Drongyuel Community Forest and group is termed as Gadhen Drongyuel Community Forest Management Group.

Traditional Rights and Responsibilities.

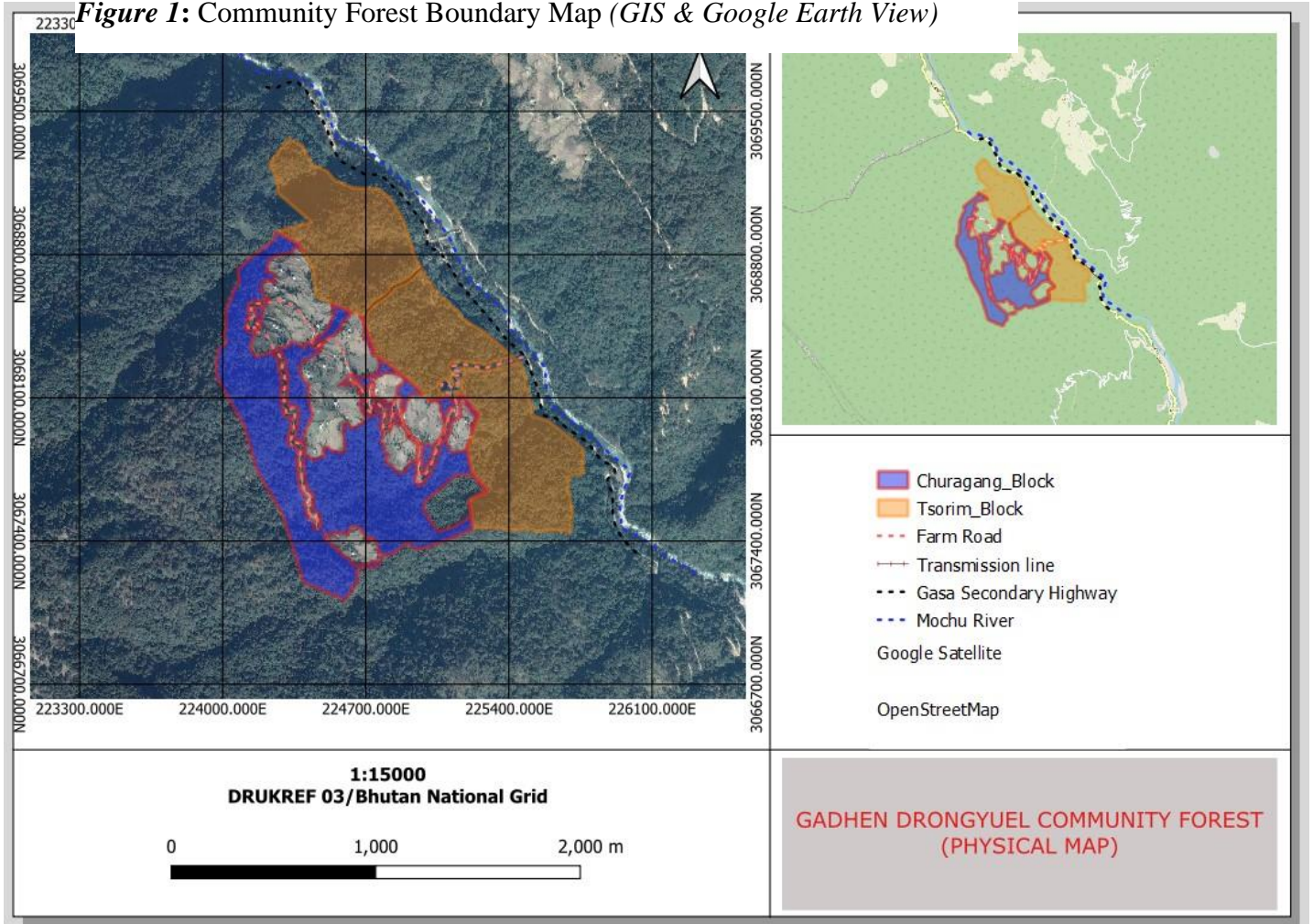
Products/services	Rights	Responsibilities	Traditional management system.
Any forest product including NWFP and services	Who has the current rights and what are the rights?	Who and what are the responsibilities?	(Past or current practice of traditional management system)
Timber	Everyone, including outsiders have the right, provided individuals hold a permit.	Department of forest issue permits and marks the trees.	Access to all. There is no traditional management system.
Fire wood	-do-	-do-	-do-
Boulder/sand	Free access to all the members for the surface collection with limited quantity for rural use only.	Department of forest issues permits for commercial purposes.	No traditional management system.
Water	Community has the right to utilize water.	Community protects the catchment areas.	There is no specific management system, but they perform ritual ceremony every year to have continuous water flow.
NWFPs	Free access for domestic consumption.	Department of forest issues permit for commercial use.	They collect flowers and leaves which are edible but they don't uproot the whole plant.
Leaf mould	Free access for rural use.	Department of forest issues permit for commercial use.	There is no specific management system.

Community forestry Boundaries

Total community forestry area: 160.52 ha (396.65 acres)

Boundaries	Describe the permanent features
West	Nangana foot path
East	Phunakha-Gasa National highway (Transmission line)
South	Jagalum Chu
North	Tahingna Norlam

Figure 1: Community Forest Boundary Map (GIS & Google Earth View)



SOCIAL INFORMATION

Socio-Economic Survey Report

	Description by points
Name of Village	Drachukha
History of village	<ul style="list-style-type: none"> The village consists of 25 households; agriculture & livestock farming is their main occupation. Sale of surplus rice, vegetables, dairy products and seasonal NWFPs like fern (Nakey) and mushrooms are their main income source. Facilities like school, BHU, RNR Centre are located at Gewog Centre (Mistchen) which is about 7 kms from the village.
Ethnic groups with CFMG	Homogeneous group (Goen People)
Infrastructures	Farm road, electricity, mobile connection, irrigation channel and drinking water.
Total household (HH) number	25
Total human population of CF area	124
Gender status (Male and Female)	Male 60, female 64
Cattle population of the CF area	123
Main crops	Paddy and vegetables
Cropping patterns	Paddy and vegetables are cultivated alternatively.
Criteria for well-being livelihood	Land holding and house condition.
No. HH (wealthy)	6
No. Of HH (medium wealthy, if so)	15
Average annual income (Nu./year)	20,000-50,000

FOREST INFORMATION (WHOLE FOREST)

Gadhen Drongyuel Community Forest at Drachukha falls under the cool broadleaved forest with an altitude ranging from 1800 to 3000 meters above sea level. The topography is gentle slope facing towards the south-east aspect with fertile soil. It is divided into two blocks. Both the blocks have similar forest type but Churagang block has water source which needs to be protected. The farm road is connected through the Tshorim block which makes it more convenient for the CFMG to transport the forest products.

The Forest Condition at present is good with the canopy cover of more than 70% and the CF has adequate quality timber species. The CFMG can meet annual requirements of firewood and construction timber from the CF. The natural regeneration of broadleaved species is abundant and good management practices can enhance the overall forest condition in future.

The ground vegetation of CF includes varieties of NWFPs like Fern (Nakay), mushrooms, orchids (Olatshey) and other species which can fetch a good income for the CFMG, the selling of ferns, mushrooms and vegetable orchids like Olatshey fetches very good income for them at present. Average Basal Area of CF: **21.895m²/ha** & AAC of CF is **299 trees** or **593.4m³**.

Forest conditions

Use the forest condition class box below to get the average condition of the CF.		
Poor <input type="checkbox"/>	average <input type="checkbox"/>	good <input checked="" type="checkbox"/> good <input type="checkbox"/>
Does the main forest canopy consist of large and mature trees?		yes <input checked="" type="checkbox"/> No <input type="checkbox"/>

Fauna

Local name	English/common name	Zoological name
Shawa	Sambar Deer	<i>Cervus unicolour</i>
Kasha	Barking Deer	<i>Muntiacus muntjak</i>
Ripha	Wild pig	<i>Sus scrofa</i>
Pcha	Monkey	<i>Macaca mulatta</i>
Leko	Kalij Pheasant	<i>Lophura leucomelanos</i>

List of forest products and who collects from forest.

List of products and services	Who collect from the forest		Marked by x if used or collected outsider (out of CFMG) and their village.
	Male(M)	Female(F)	
Mushroom	M	F	
Ferns	M	F	
Timber	M		
Fire wood	M	F	
Fodder	M	F	
Leaf litter		F	

Block Wise Information (The CF is divided into two Blocks)

Churagang Block (block I)

Name of the block	Churagang
Total area of the block	71.98 ha
Net Production Area	63.48 ha
Basal Area	11.60m ² /Ha
AAC	131 Trees /232.80m³

Forest type or vegetation type:

Forest type	Tick(√)	Remarks, if any
Cool bread leaved forest	√	

Main species:

Local name	Botanical name
Sokayshing	<i>Castanopsis hystrix</i>
Tapshing	<i>Betula alnoides</i>
Kashing (Lungmasging)	<i>Macaranga denticulata</i>
Khashing	<i>Michelia champaca</i>

Forest condition- Age:

Mature √ Main canopy of mature trees	Pole stage Main canopy of pole stage trees	Shrub land Main canopy of shrubs, young trees or regeneration	Any No continuous canopy, isolated trees only.
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Forest Condition-Canopy density (main canopy)

Dense √	Open	Very open
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Canopy density >70%	Canopy density <70%	No real canopy, isolated trees only
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Forest Condition-Regeneration:

Abundant ✓ Regeneration easy to find in most places	Scattered/few Regeneration only in some places and hard to find.	Very open No regeneration
3 main tree species in the regeneration		
1) <i>Castanopsis hystris</i>	2) <i>Macaranga denticulata</i>	3) <i>Alnus nepalensis</i>
Regeneration: seedling > 30cm and <1.3m height		

Forest Condition-Approximate density of seed tree (if any):

Forest condition-Approximate density of seed tree		
High >50 seed tree per ha	Moderate ✓ 10-50 seed trees per ha	Low <10 seed trees per ha

Block Condition: Average condition for the block		
Poor	average	good ✓ very good
Does the main forest canopy consist of large, mature trees?		yes ✓ No

Catchment Condition

Soil cover		Soil cover class
>50% of the soil are covered by vegetation		High
25-50% of the soil is covered by vegetation		moderate ✓
<25% of the soil are covered by vegetation		low
Slope		
Slope (degree)	Slope steepness class	
<10 ⁰	Gentle	
10 ⁰ - 30 ⁰	Moderate ✓	
>30 ⁰	Steep	
Catchment condition- Summary		
Use the catchment condition class box below to get the average condition for the block.		
Less critical	Moderately critical ✓	Highly critical

Catchment conditions

Catchment condition class box			
Slope category	Soil erosive	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

Steep	Non erosive	Moderate or high	Less critical
		low	Moderately critical
	Erosive	Moderate or high	Moderately critical
		low	Highly critical
Steep	Non erosive	Moderate or high	Moderately critical
		low	Highly critical

Biotic pressure indication (existing biotic pressure in bold)

Fire	Common	occasional	Absent
Grazing	Heavy	Limited	Absent
NWFP collection	Common	Limited	Absent
Encroachment	Common	Occasional	Absent
Hunting	Common	Occasional	Absent

Tshorim Block (Block II)

Name of the block	Tshorim
Total area of the block	88.54 ha
Net Production Area	85.54 ha
Basal Area	11.50m ² /Ha
ACC	168 trees or 360.61m ³

Forest type or vegetation type:

Forest type	Tick(√)	Remarks, if any
Cool bread leaved forest	√	

Main species:

Local name	Botanical name
Sokayshing	<i>Castanopsis hystrix</i>
Tapshing	<i>Betula alnoides</i>
Gamashing	<i>Alnus nepalensis</i>
Kashing (Lungmasging)	<i>Macaranga denticulata</i>
Khashing	<i>Michelia champaca</i>

Forest condition- Age:

Mature √ Main canopy of mature trees	Pole stage Main canopy of pole stage trees	Shrub land Main canopy of shrubs, young trees or regeneration	Any No continuous canopy, isolated trees only.
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Forest Condition-Canopy density (main canopy)

Dense ✓ Canopy density >70%	Open Canopy density <70%	Very open No real canopy, isolated trees only
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Forest Condition-Regeneration:

Abundant ✓ Regeneration easy to find in most places	Scattered/few Regeneration only in some places and hard to find.	Very open No regeneration
3 main tree species in the regeneration		
1) <i>Castanopsis hystris</i>	2) <i>Macaranga denticulata</i>	3) <i>Alnus nepalensis</i>
Regeneration: seedling > 30cm and <1.3m height		

Forest Condition-Approximate density of seed tree (if any):

Forest condition-Approximate density of seed tree		
High >50 seed tree per ha	Moderate ✓ 10-50 seed trees per ha	Low <10 seed trees per ha

Block Condition:

Average condition for the block		
Poor	average	good ✓ very good
Does the main forest canopy consist of large, mature trees?		yes ✓ No

Catchment Condition

Soil cover		Soil cover class	
>50% of the soil are covered by vegetation		High	√
25-50% of the soil is covered by vegetation		moderate	
<25% of the soil are covered by vegetation		low	
Slope			
Slope (degree)	Slope steepness class		
<10 ⁰	Gentle		
10 ⁰ - 30 ⁰	Moderate √		
>30 ⁰	Steep		
Catchment condition- Summary			
Use the catchment condition class box below to get the average condition for the block.			
Less critical	Moderately critical	√	Highly critical

Catchment conditions

Catchment condition class box			
Slope category	Soil erosive	Cover class	Condition class
Flat	Erosive	Moderate or high	Moderately critical
		Low	Highly critical
	Non erosive	Any	Less critical
	Erosive	Moderate or high	Moderately critical

Moderate		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

Biotic pressure indication (existing biotic pressure in bold)

Fire	Common	occasional	Absent
Grazing	Heavy	Limited	Absent
NWFP collection	Common	Limited	Absent
Encroachment	Common	Occasional	Absent
Hunting	Common	Occasional	Absent

Silvicultural options and systems

Utilization	Improvement	Protection	Silviculture system	Comments
Drashing, cham & pole size trees will be utilized.	Induce regeneration Cleaning & thinning.	Protection from illegal activities. Protection of regeneration.	Single tree selection.	Pole stage trees with quality species shall be retained.

Forest management procedures

Objective	Activities	Priority H,M,L	Procedures	Responsibilities
1. Prevent illegal activities both CFMG & outsiders	1.1 Patrolling	H	Monthly patrolling by two Resoops	Chairperson & Committee members
	1.2 Compounding the illegal activities	H	The chairperson will take actions as per management plan	Chairperson, Committee members & Resoop
	1.3 Grazing control from outsiders	M	Allowed to graze only for five days in a month, without damage on plantation	CFMG, Chairperson 7 cattle owners
2. To manage the forest on sustainable basis	2.1 Marketing	H	Marketing should be done on thinning basis. Matured, unhealthy, dead and dying trees shall be removed for	Chairperson, Committee members, CFMG & Resoop/FO

			marketing.	
	2.2 Harvesting limit	H	It should not cross the harvesting limit	Chairperson, Committee member, CFMG& FO
3. Produce valuable timber species in the future	3.1 Plantation	H	Site selection, species selection & plantation in April to May	Executive members & CFMG
	3.2 Retain mother trees	H	Retain Cham and Tsim size special class trees to attain drashing size	Executive members & Resoop will monitor
4. Water source protection in block I (Churagang)	4.1 Plantation and fencing water source in block I	H	CFMG will plant trees in April to May & fence the source. No felling trees within 100 ft of water source.	All CFMG members
	4.2 Grazing control	H	No grazing around the source & if found the owner have to bear the penalty	Resoops, CFMG & chairperson
5. Income Generation	5.1 Selling the surplus forest products	H	Identify the products and quantity, finding markets	Chairperson, CFMG & FO
	5.2 Collection of fines and fees	H	Follow as prescribed in CF management plan	Chairperson & Committee members.

Forest Product Prioritization Matrix

Species/ local name	Uses	Drashing	Cham	Tsim/ Dangchung	Firewood	Leaf litter	Fencing Post
<i>Juglans regia</i> Walnut	Preference	-	-	-	-	**	-
	Availability	**	**	*	-	**	**
<i>Toona ciliata</i>	Preference	xxxx	xxxx	-	-	-	-
	Availability	*	*	*	-	-	-
<i>Michela champaca</i> Champ	Preference	xxxx	xxxx	-	-	-	-
	Availability	**	**	-	-	-	-
<i>Betula alnoides</i>	Preference	xxxx	xxx	-	xx	-	-
	Availability	**	**	-	*	-	-
<i>Alnus</i>	Preference	xxxx	xxx	-	xx	x	-

<i>nepalensis</i>	Availability	*	*	-	*	*	-
<i>Catanopsis sp.</i>	Preference	xx	xx	-	xx	xxxx	xxx
	Availability	****	***	-	**	**	**
<i>Morus macroura</i>	Preference	xxxx	xxx	-	-	xx	-
	Availability	**	*	-	-	**	-
Poomoroto (<i>Hovenia sp.</i>)	Preference	xxx	xxx	xx	-	-	-
	Availability	*	*	*	-	-	-
<i>Exbaklandia populnea</i>	Preference	xx	xx	-	-	-	-
	Availability	*	*	-	-	-	-
Oak	Preference	-	-	xxx	xxx	xxx	xxx
	Availability	-	-	**	**	**	**
<i>Schima wallichii</i>	Preference	xxx	xxx	-	-	-	xx
	Availability	**	*	-	-	-	*
Seytochem (<i>Persia sp</i>)	Preference	-	-	-	-	-	x
	Availability	*	**	**	-	-	**
xxxxxx – high preference, **** - highly available and x – low preference, * - less available							

Forest Produce Demand Assessment

Produce	Annual requirement (estimated)		Number of HH that require produce annually	Total requirement of the produce (annually)		Total requirement of produce in 10 years	
	Number	Volume (in cft)		Number	Volume (in cft)	Number	Volume (in cft)
For new construction							
Drashing	18	4000cft	5 h/h in 10 yrs.	9	2000cft	90	20000cft
For Renovation/Extension							
Drashing	3	700cft	6 h/h in 10 yrs.	1.8	420cft	18	4200cft
For other construction (toilet, cowshed, etc.)							
Drashiung	2	300cft	3 kitchens in 10 years	.6	9cft	6	900cft
Drashing	1	150cft	3 toilets in 10	.3	45cft	3	450cft

			years				
Drashing	2	300cft	8 cowsheds in 10 years	1.6	240cft	16	2400cft
For other produce							
Fire wood	1		25	25		250	
Fencing post	1		10	10		100	
Flag pole	108		1	108		1080	

Forest Produce Demand Assessment (Summary)

Produce	Annual household requirement (estimated)		Number of households using the produce (if all then write “all”	Remarks
	No.	Volume		
Drashing	18	4000	5	Two storey
	3	700	6	Renovation
	2	300	3	Kitchen
	1	150	3	Toilet
	2	300	8	Cowsheds
Tsim				No demand
Dangchung				No demand
Firewood	1		All	
Flag poles	108		All	
Fencing post	1		10	

Annual Timber Harvesting Limit

Block (All trees)	No. of trees	Net operable area (Ha)	Volume per Ha (m3)	Rotation age	AAC (m ³)
Churagang	227	63.48	403.4	110	232.80
Tshorim	216	85.54	463.72	110	360.61
Total		149.02	876.12		593.40
Annual Allowable Cut (AAC) (All trees)		Dangchung	Tsim	Cham	Drashing
Churagang block					
Numbers		18	33	24	56
M3		1.38	9.41	15.64	163.02
CFT		48.72	332.44	552.58	5757.95
Tshorim block					

Numbers	34	26	25	83
M3	3.59	10.58	20.69	325.57
CFT	126.89	373.54	730.87	11498.96
Timber trees				
Annual Allowable Cut (AAC)	Dangchung	Tsim	Cham	Drashing
Churagang block				
Numbers	1	8	12	39
M3	0.03	2.24	7.92	133.27
CFT	1.02	79.09	279.65	4707.01
Tshorim block				
Numbers	4	9	8	58
M3	1.14	5.99	9	253.5
CFT	40.38	211.49	317.78	8953.68
Non-Timber trees				
Annual Allowable Cut (AAC)	Flag poles	Cham (F/post)	Firewood	
Churagang block				
Numbers	17	12	17	
M3	1.35	7.73	29.75	
CFT	47.7	272.93	1050.94	
Tshorim block				
Numbers	30	17	25	
M3	2.45	11.70	72.06	
CFT	86.52	413.09	2545.29	

Annual Allowable Cut and Demand Format

Produce	Total ACC		Total Annual Demand		Difference		Comments
	No. of trees	Volume (in cft)	No. of trees	Volume (in cft)	No. of trees	Volume (in cft)	
Drashing	97	13660.69	16	2240	+81	11420.6	Sufficient
Cham	30	597.43					No demand. Retain for Drashing
Firewood	42		25		+17		Sufficient
Fencing post	29		10		+19		Sufficient
Flag poles	52		108		56		Manage from CF by issuing Symplocos sp as there is abundance regeneration. Preferred species shall be

						bought from SRF
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Problems and opportunities (related to above information and analysis)

Problems	Opportunities	Management objectives	Activities for management of the forest
Limited Dangchung and Tsim size trees in CF area.	Since there are excess drashing size trees in the CF area, they can meet their requirement from drashing.	To improve the forest condition.	Planting of desired species for dangchung & tsim.
	There are excess drashing and cham size trees.	Income generation through sale of surplus trees.	Harvesting of matured trees and marketing.
Illegal activities from outsiders.	Apprehend the culprit and penalize them.	Protection from outsiders.	Monthly patrolling. Boundary demarcation.
Catchment condition – moderately critical	Continuous flow of water for drinking and irrigation purposes	Improve forest condition for continuous flow of water	No marking shall be allowed nearby the catchment area

Prioritization Matrix and Preference Ranking

	Timber	Firewood	Fencing Post	Water	NWFP	Grazing	Leaf mould
Timber	X						
Firewood	Timber	X					
Fencing Posts	Timber	Fencing post	X				
Water	Water	Water	Water	X			
NWFP	Timber	NWFP	Fencing post	Water	X		
Grazing	Timber	Grazing	Fencing post	Water	NWFP	X	
Leaf mould	Timber	Firewood	Fencing post	Water	NWFP	Grazing	X

1st – Water (6) 2nd – Timber (5) 3rd – Fencing post (4) 4th – NWFP (3) 5th – Grazing (2) 6th – Firewood (1) 7th - Leaf mould

Forest Management Matrix

CF management procedure				
Sl. No	Produce/ Services	Drashing	Firewood	NWFP
1	Main Species	<i>Betula, Alnus, Toona, Exbakalandia</i> and Pomorooto (<i>Hovenia</i>)	<i>Quercus, Alnus, Macaranga</i> and <i>Catanopsis</i>	Fern, Mushroom, and Namna
2	Problem	Illegal harvesting Hollowed trees	-Illegal harvesting	-Illegal harvesting
3	Opportunities	Easy access Sale of fallen trees	Easy access Income generation	Easy access Income generation
4	Management objectives (problem & opportunities)	-Forest protection -Sustainable harvesting -Income generation	-Forest protection -Sustainable harvesting	Forest protection -Sustainable harvesting -Income generation
5	Activities to achieve the objectives	-Regular patrolling -Issuance of timber as per AAC -Plantation	-Regular patrolling -Deform trees -No conversion to timber or planks -Plantation	-Regular patrolling -Sale of valuable NWFP -Follow harvesting guidelines
6	Procedure	-Once in every month -Follow permit system -After joint inspection hollow tree will be replaced	-Once in every month -Follow permit system -Strict monitoring	-Once in every month -Strict monitoring
7	Responsibilities	Committee members, CFMG members and Forestry officials		

Participatory Environmental Assessment

Activity proposed in CFMP	Potential Environmental Effects				Potential Socio-Economic Effects			
	Soil	Water	Wild animals	Plants	Traditional forest use	Culture and	Local employme	Local benefits from forest produce
Plantation establishment	+++	++	+++	--	++	+++	++	++

Fuel-wood harvesting	--	---	--	---	0	--	0	+
Flag pole harvesting	--	---	--	---	0	--	0	+
Timber harvesting	--	---	--	---	0	--	0	+
Grazing control	0	--	--	--	0	0	0	+
Fire control	++	0	--	--	0	0	0	+
NWFP collection	--	--	--	-	0	0	0	+
Forest protection	+++	++	+++	++	+	0	0	-
Soil and water conservation activities	++	++	++	0	0	0	+	0

+++ Positive effect --- Negative effect 0 No effect (Or No relevant)

Procedures to address potential negative effects

Activity	Procedure
Plantation establishment	<ul style="list-style-type: none"> - Planting native tree species - Maintenance of existing plantation
Fuelwood harvesting	<ul style="list-style-type: none"> - No felling on steep slopes - Non-timber trees will be used as firewood - Quantities will be controlled with strict monitoring
Flag pole harvesting	<ul style="list-style-type: none"> - Use bamboos - <i>Symplocos sp.</i> shall be provided - Advised to use modern method of hoisting flags
Timber harvesting	<ul style="list-style-type: none"> - Will be distributed according to priority of need - No felling within water sources - No felling at landslide prone area - Timber should be allotted as per FNCRR
Forest protection	<ul style="list-style-type: none"> - Conduct patrolling - Use the forest products on sustainability
Grazing control	<ul style="list-style-type: none"> - Grazing shall not be allowed in plantation area
NWFP collection	<ul style="list-style-type: none"> - Allowed with valid permit - Outsider are not allowed to collect

Address potential negative effects

Activity	Procedure
Firewood harvesting	<ul style="list-style-type: none"> • No felling on the steep slope • Non timber species and dead, dying, diseased, and fallen trees will be allotted • No felling near and around the water catchment area
Timber harvesting	<ul style="list-style-type: none"> • No felling on steep slope area • No felling in and around the water source • Should not exceed the harvesting limit

	<ul style="list-style-type: none"> • The product is equally distributed on need basis • Retain sound and good trees as a mother tree • Marketing should be done on selection basis
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Participatory Forest Resource and Service Monitoring

Objective	Indicator	How it will be monitored	Responsibility	Comments
To improve the forest condition	Regeneration status	Number of seedlings will be counted each year in a fixed area	CFMG and executive committee	FO will facilitate and support
Produce valuable timber species in the long run	Survival and growth of planted seedlings. Regeneration status of valuable timber species. Number of different species. Evidence of illicit tree felling.	Survival percent will be recorded every year in the plantation. Regeneration of valuable species will be counted every year in fixed area. Record will be taken every year from monitoring plots. Reports from CFMG members.	CFMG and executive will take record.	FO will assist to collect data & select timber species for plantation.
To manage forest resources on sustainable basis	No. of trees marked for harvesting, evidence of illicit tree cutting, Availability of various forest products.	From CFMG records, Reports from CFMG members, Records from monitoring plots.	CFMG and executive committee.	FO will assist collecting data while marking.
To generate income	Amount of money accumulated in the management fund		CFMG and executive committee	FO will assist.

Climate Hazard and Vulnerability Assessment (Assessment Result)

	Landslide	Flood	Drought	Forest Fire	Reduced crop yields
Landslide	X	Landslide	Landslide	Landslide	Reduced crop yields
Flood		X	Flood	Flood	Reduced crop yields
Drought			X	Forest fire	Drought
Forest Fire				X	Reduced crop yields
Reduced crop yields					X
Result: 1st= Landslide (3) &Reduced crop yields (3)					
2nd= Flood (2)					
3rd= Forest fire (1) & Drought (1)					
Climate vulnerability Assessment for Different Sectors					
Social group sector	Drought	Forest fire	Flood	Landslide	
Forest	3	1	1	2	
Livestock	2	4	2	2	
Agriculture	1	4	1	1	

Activities to reduce Vulnerability from Climate Change				
Social group sector	Drought	Forest fire	Flood	Landslide
Forest	-Plantation Soil conservation -Water source management	-Awareness program -Fire line creation	-Plantation in erosion risk area -Restrict dredging along river banks and streams	-Planting of fast-growing plants -Promote LMC activities
Livestock	-Plantation of fast-growing fodder species -Waste management -Minimize free grazing	-Awareness program	-Plantation in erosion risk area -Restrict dredging along river banks and streams	-Planting of fast-growing plants -Promote LMC activities

Agriculture	-Improve quality of irrigation channel -Organic farming practices	-Awareness program	-Plantation in erosion risk area -Restrict dredging along river banks and stream	-Planting of fast-growing plants -Promote LMC activities
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Work plan

Plan of operation for 10 years

Location	Activity	Year of operation										Responsibility
		1	2	3	4	5	6	7	8	9	10	
Block I Churaganga	Plantation & fencing for the protection of water source.	x		x		x		x		x		CFMG, and FO
	Thinning & harvesting of the matured trees	x		x		x		x		x		CFMG & FO
	Plantation of walnut trees in the open area.		x		x		x		x			CFMG & FO
Block II Tshorim	Thinning & harvesting of the death, dying and fallen trees including matured trees.		x	x		x		x		x		CFMG & FO
	Clearing bushes & plantation of Michelia species		x		x		x		x			CFMG & FO
Whole Block	CF boundary demarcation and patrolling	x			x			x			x	CFMG & FO
	Monitoring of illegal activities and CF activities CF area	x	x	x	x	x	x	x	x	x	X	CFMG & FO

Annual Work plan

Objective	Activities	Location	Quantity	Time
Water source protection	Plantation and fencing	Block I Gaychu top	Approx. 2acres	2 nd to 3 rd march to April
Walnut plantation	Clearing site for plantation & planting of trees.	Block I Gaychu	1-2 acres	3 rd to 4 th April to may
Income generation through sale of surplus timber	Thinning & selling of surplus timber	Block II Tshorim	Decide during general meeting	11 th to 12 th Dec to Jan
CF boundary demarcation & patrolling	Painting along the boundary	Whole CF area		10 th to 11 th Nov to Dec
Monitoring CF area	Patrolling & inspection of illegal activities	Whole CF area	Whole CF area	Every after 4 months
Collection of NWFPs	Issuing permits by chairperson	Whole CF area	No fixed quantity	During NWFPs season

Monitoring of CF activities

- Timely monitoring of regular CF activities by FO.
- FO shall monitor growing stock, forest condition, harvesting limit and income generation.
- FO shall monitor benefit sharing, decision making and financial management.
- CFMG shall submit annual report to the FO pertaining to CF activities.
- FO also have to submit annual report to Chief Forestry Officer
- The Territorial Division/Park has right to visit and monitor the CF area as and when required.

- The Territorial Division/Park will evaluate the annual plans and activities in every five years.
- The joint report will be submitted to the SFED regarding all activities related to CP management plan and CFMG

Evaluation of CFM plan

- Whether activities are carried out in line with the work plan by CFMG
- Effectiveness of the committee members and CFMG while managing CF
- Detail records of CF activities and financial transaction records.
- Management and distribution of forest products and other benefits (equity and equality)
- Protection from illegal activities and functioning and achievements of CFMG & committee members
- Forest condition, plantation success rate and harvesting operations

Participatory Forest Resource Monitoring

Objective	Indicator	How it will be monitored	Responsibility	Comments
Ensure sustainable utilization of timber and other forest produce	No. of trees marked for harvesting. Evidence of illicit cutting	CFMG records and Reports from CFMG Members	CFMG Committee/Members/forest official	Filled M&E format
Rehabilitate the blank and degraded area.	No of plantation created No of plantation maintenance	No of seedling planted Survival percentage	CFMG Committee/Members/forest official	Filled M&E format
Improve the forest condition	Regeneration status Soil cover % Canopy closure%	No of seedling refilled Thickness of ground cover	CFMG Committee/Members/forest official	Filled M&E format
Protect the forest for ecological and environmental function	Incidence of soil erosion reported No of illegal harvesting	CFMG record books Verbal communications	CFMG Committee/Members/forest official	Filled M&E format

	recorded No of forest fire reported			
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SECTION B

BY-LAWS (ཟུར་ཁྲིམས)

གཞི་དོན།

ཟུར་ཁྲིམས་འདི་གོང་མེ་ནགས་ཚལ་མཐུས་མི་ཡོངས་ཀྱིས་གོས་མཐུར་ལྟར་དུ་གསར་བཏོན་འབད་ནི་འདི་གི་གོང་མེ་ནགས་ཚལ་མཐུས་མི་ཆ་མཉམ་གྱིས་ཁས་ལེན་དགོ།

1. Membership Arrangement)མཐུས་མི་འཛུལ་ཁྱུགས་དང་དགོངས་ཁྱུ་ལམ་ལྷགས་(

༡.༡) འབྲུག་གི་མི་ཁྲལ་འཆང་མི་ གོས་བཅུ་ཁ་སྤྱོད་འག་ནང་འཁོད་ ས་ཁྲམ་དང་གུང་ཐོ་བཀོད་ཡོད་མི་གཙོ་ཅན་གཅིག་ལུ་ འཛུལ་ཁྱུགས་འབད་ནི་ དབང་ཆ་ཡོད་པ་ཨིན། དེ་ཡང་གནད་དོན་(༡.༣)་དང་(༡.༤)་བ་རྟེན་འབྲེལ་འབྲས་སྤྱོད་དགོ།

1.1. Any Bhutanese citizen whose has registered land and house under Drachukha Chiwog shall have the right to become a member of Gadhen Drongyuel Community Forest upon payment of registration fee as per section 1.3 & 1.4.

༡.༢) རྒྱལ་སྤྱི་ ད་ལས་པར་ས་ཁྲམ་དང་གུང་ཆག་ཡོད་མི་རྩ་མེན་གཅིག་གིས་གོང་མེ་ནགས་ཚལ་གཅིག་ལས་ལྷག་སྟེ་འཛུལ་ཁྱུགས་འབད་ནི་བསམ་བཤོད་བྱུང་ འཛུལ་ཁྱུགས་འབད་མི་ཆོག།

1.2. Henceforth, any Bhutanese citizen with household and registered land under Drachukha Chiwog and is an active member of GDCF willing to join in more than one Community Forest membership shall not be allowed.

༡.༣) དུས་དང་གནས་ལྟངས་ཀྱི་ འགྱུར་བ་དང་འབྲེལ་ ད་ལྟོ་ཐོ་བཀོད་སྤྱབ་མི་འབྲས་མི་གཅིག་ལས་ས་ཆ་བཀོ་བཤའ་ཐོབ་སྟེ་ སོར་སོ་ཁ་དབྱེ་འགྱུ་མི་མི་ངོམ་རེ་ཐོན་ན་ཁོ་མོ་གང་བྱུང་གིས་ བཀོ་བཤའ་ཐོབ་ཡོད་པའི་ས་ཆ་དེ་ནང་གཞི་ཆག་པར་ཅིན་ གོང་མེ་ནགས་ཚལ་འབྲས་མི་སྟེ་འཛུལ་

ཚགས་ཡིན་ཅུང་ འཛུལ་ཞུགས་འབད་ནི་དོན་ལུ་གོང་ཁྱེ་ནགས་ཚལ་གྱི་མ་དངུལ་ཡོངས་སྡོམ་ལས་
འཐུས་མི་གཅིག་གི་བཞོ་བཤའ་བརྒྱ་ཆ་(༢༥)་སྟོང་ཐོག་འཛུལ་ཞུགས་འབད་ཚོགས།

1.3 In case of a person (s) getting separated due to land fragmentation from his/her household that is/are current member (s) of the GDCE, shall be allowed to become a member of the CF upon payment of membership fee equivalent to 25% of one member's share of the total CF fund. However, s/he must settle in the same Chiwog.

༡.༤) བྱི་མི་གང་ཅུང་ཡང་ན་གཞན་གང་འདྲིས་ཅན་གྱི་མི་ངོམ་གཅིག་འཐུས་མི་འཛུལ་ཞུགས་
འབད་ནི་སྟོ་བ་ཡོད་པ་ཅིན་འཐུས་མི་གཅིག་གི་བཞོ་བཤའ་བརྒྱ་ཆ་(༢༥)་སྟོང་ཐོག་འཛུལ་ཞུགས་
འབད་ཚོགས། དེ་འཁྱེད་གོང་ཁྱེ་ནགས་ཚལ་ནང་ལས་འཛོན་སྐད་ཐོབ་ནི་ཡིན་མ་དང་ གཞན་ཁྱེ་པན་
ཚུ་ཡང་འདྲ་མཉམ་འབད་ཐོག་འོང་།

1.4. Any eligible outsider (having registered land in the Chiwog) or a previously non-member who lives in the Chiwog shall be allowed to become a member. However, s/he has to pay a membership fee equivalent to 80% of one member's share of the total CF fund. Hence s/he shall be entitled all right and responsibilities over the resources from the Community Forest.

༡.༥) རྒྱལ་སྤྱི་ འཐུས་མི་གཅིག་གི་དབང་པོ་ལུ་ཐོ་ཐོག་སྐད་ཐུག་བྱུང་ཏེ་ གོང་ཁྱེ་འབད་དགོས་འཛོན་
པ་ཅིན་མི་ངོམ་འདི་ལུ་གོང་ཁྱེ་ནགས་ཚལ་གྱི་མ་དངུལ་ཡོངས་སྡོམ་ལས་ འཐུས་མི་རང་ཅང་
གཅིག་གི་དངུལ་ཐོབ་ཚད་རྒྱ་ཆ་ལས་(༨༠)་སྟོང་དགོ། སྐད་ཐུག་ཅན་ ཡིན་མེན་གྱི་བདེན་
ཉགས་ཡང་ གོང་ཁྱེ་ནགས་ཚལ་བཀོད་ཚོགས་དང་ཆེ་འོག་བདག་སྐྱོང་གི་འབད་དགོ།

1.5. In case of unfortunate disability to a member (*kidu*), where he/his family can no longer become an active member. S/he shall be allowed to voluntarily retire upon proper certification and endorsement by the CFMG and Gewog administration. In such context, s/he shall be entitled for 100% of his/her accumulated share.

༡.༤)འཕུས་མི་གང་རུང་གཅིག་གི་ གོང་ཁྱེད་འབད་ནི་ཟེར་ཐོན་འོང་པ་ཅིན་གོང་ཁྱེད་འབད་ཅུག་ནི་
ཨིན་རུང་ མི་ངོམ་འདི་ལུ་གོང་མཆོད་ཆེན་པོའི་མཆོད་ཀྱི་ཡོངས་སྤྱོད་ལས་ འཕུས་མི་རང་ཅང་
གཅིག་གི་དངུལ་ཐོབ་ཚད་ལས་རྒྱ་ཆ (༥༠)་སྟོང་ནི་ཨིན།

1.6. Any member wanting to withdraw willingly from the CFMG within the plan period shall be allowed as per his/her wish. However, s/he shall be entitled to 50% of his/her accumulated share.

༡.༥)འཕུས་མི་གཅིག་གིས་ཐངས་གཅིག་ བྱ་སྐབས་མ་བདེ་བར་གོང་ཁྱེད་འབད་ཡར་སོང་པའི་ཤུལ་
ལྷག་ཏེ་འཕུས་མི་འབད་འཇུག་ནི་ཟེར་ཐོན་འོང་པ་ཅིན་ བྱིས་སྤོན་(༡.༤)་པ་དང་ འབྲེལ་
འབྱེལ་ཁྱེད་འབད་ཆོག།

1.7. Any member (s) once withdrawn from membership due to inevitable circumstances shall be allowed to rejoin as a member if s/he willingly pays the re-registration fee as per section 1.4.

༡.༦)འཕུས་མི་གཅིག་གིས་ ད་ལྟོ་གོང་མཆོད་ཆེན་པོའི་མཆོད་ཀྱི་ལས་སྤྱོད་ཏེ་འཇུག་ཁྱེད་འབད་ཡོད་པར་
ཅིན་ གཤམ་སྤོང་འཕུས་མི་འདི་ཚུ་ གཞུང་གི་བཀའ་རྒྱ་ལྱུར་ གོང་ཁྱེད་འབད་དགོཔ་བྱུང་ན་ འདི་
འཕྲོ་ལས་ར་གོང་ཁྱེད་འབད་འགྱོད་གོ། གོང་ཁྱེད་འབད་འགྱོད་འཕྲོ་བའི་སྐབས་ ཁོང་ལུ་འཕུས་མི་རང་ཅང་
གི་དངུལ་ཐོབ་ཚད་ལས་རྒྱ་ཆ (༥༠)་སྟོང་ནི་ཨིན།

1.8. In case if a CFMG member (s) who is registered with more than one community forest shall be compelled to withdraw his/her membership as per government order. However, withdrawer will be entitled for 80 % of his/her accumulated share.

༡.༧)གོང་མཆོད་ཆེན་པོའི་མཆོད་ཀྱི་འཕུས་མི་གཅིག་གིས་ཐངས་གཅིག་ རྒྱ་བ་གང་ཤར་ཐོག་ལས་གོང་ཁྱེད་འབད་
ཡར་སོང་པར་ཅིན་ གང་ཟག་དེ་ལྷག་འཕུས་མི་འཇུག་ནི་ཟེར་ཐོན་འོང་རུང་ འཕུས་མི་འབད་
མི་བཅུག། ཨིན་རུང་འཕུས་མི་དེའི་བྱུང་གི་སྐབས་ལུ་བྱུང་གང་རུང་གཅིག་ལུ་འཕུས་མི་འབད་

འཕྲུལ་ནི་འོ་བོ་སྐབས་བྱིན་ནི་ཨིན་ དེ་འབད་མ་དང་ འཕྲུལ་མི་ངོམ་རང་ཅང་གི་དཔུལ་ཐོབ་ཚད་
ལས་རྒྱ་ཆ་༡༠༠་བཅུགས་དགོ།

1.9. Any member who willingly withdrew his/her membership once wanting to rejoin the CFMG shall not be entertained. However, his/her children shall be allowed to become a member upon paying a membership fee equivalent to 100% of one member's share of the total CF fund.

2. Management Committee Formation (འཛིན་སྐྱོང་ཚོགས་ཚུངས་ཁྱུང་གི་བཞོན་སྡེ།)

- ✓ འཛིན་སྐྱོང་ཚོགས་ཚུངས་འཕྲུལ་མི་(༣)་ངེས་པར་དུ་དགོ། དེ་ཡང་ཁྱིམ་འཛིན། བྱུང་ཆེན། ཅིས་བྱུང་།
ཚུ་ཨིན། རི་སྤང་པ་(༡)་ཅིག་དགོ།
- ✓ Executive Committee of the CF should consist of Chairperson, Secretary and Treasurer. It should also include 1 local forest guard (Resoop).
- ✓ འཛིན་སྐྱོང་ཚོགས་ཚུངས་འཕྲུལ་མི་གདམ་ཁ་རྒྱུ་པའི་སྐབས་མི་ངོམ་དེ་འབྲི་ལྷག་གི་ཤེས་ཚད་
ལྷན་མ་གཅིག་བཅག་འཕུ་བྱུང་དགོ།
- ✓ Elected executive members should be able to read and write.
- ✓ འཛིན་སྐྱོང་ཚོགས་ཚུངས་འཕྲུལ་མི་གདམ་ཁ་རྒྱུ་པའི་སྐབས་ཕོ་མོ་ཉེ་རིང་བྱུང་ནི་མི་འོང་།
- ✓ Election of executive members shouldn't be gender biased.
- ✓ འཛིན་སྐྱོང་ཚོགས་ཚུངས་འཕྲུལ་མི་(༣)་དེ་ ལོ་ངོ་(༣)་གི་རྒྱུ་ལས་ཚར་རེ་སོར་དགོ།ཡང་ན་འཛིན་
སྐྱོང་འཕྲུལ་མི་མཉམ་འབྲེལ་ཐོག་ལས་ཁོང་(༣)་ལུ་ལོག་ཏེ་གོ་སྐབས་གནང་ཆོག།
- ✓ Elected executive members should serve minimum of 3years. However, the members can be re-elected based on meeting resolution of the CFMG.
- ✓ འཕྲུལ་མི་གཞན་ཚུ་སྐར་རྒྱུ་ལྷེ་རི་སྤང་པའི་འགན་ཁུར་འབག་དགོ།
- ✓ Other CFMG members should serve the responsibility of forest guard. Yearly on rotation basis.

- ✓ འཛིན་སྐྱོང་ཚོགས་ཚུང་གི་འཐུས་མི་གང་རུང་ཅིག་དགོངས་ཁུ་འབད་བ་ཅིན་ཟླ་(༡)་གི་ཉི་མ་ལས་ཁུ་ཚོག་འཛིན་སྐྱོང་ཁྲུང་ཁྲུང་འཐུས་མི་ལུ་ཐུལ་དགོ།
- ✓ Untimely withdrawal of responsibility of any of the executive member (s) should put resignation letter 1 month prior to his resignation.
- ✓ འཛིན་སྐྱོང་ཚོགས་ཚུང་འཐུས་མི་དགོངས་ཁུ་འབད་བའི་སྐབས་ཡིག་ཆ་དང་གཞན་ཕྱི་ཚུ་དེ་དང་འབྲེལ་བའི་ཅ་ཆ་ཚུ་ཅིས་སྦྱོང་ལན་འབད་དགོ།
- ✓ Resignation of executive member (s) from his/her responsibility shall be accepted only after completion of proper handing and taking of roles, responsibility and stock to the relieving member.

2.1. ToR for Management Committee (ཚོགས་ཚུང་འཐུས་མི་ཚུ་གིས་འགན་འཁུར་དང་དབང་ཆ་དཔྱད་ཆེད་)

- ✓ ཕྱི་ཚུ་གི་ཁྱེད་ལུ་ཐུབ་ཐབས་ལུ་འཆར་གཞི་གི་ལུ་ཚུ་འགོ་དྲོན་ཐབས་ནི།
- ✓ Should aim at achieving goals of Community Forest.
- ✓ འཆར་གཞི་གི་ལུ་དུས་ཚོད་ཁར་འགོ་དྲོན་འཐབས་ནི།
- ✓ Should execute CF activities as per work plan.
- ✓ ཕྱི་ཚུ་གི་ཡིག་ཆ་དང་ཅིས་ཁྲུང་དུངས་བསེལ་འབད་བཞག་ནི།
- ✓ Prevalence of transparency and accountability.
- ✓ གྲོང་ཁྱེར་ནགས་ཚལ་འདི་ནགས་ཚལ་གི་བཅའ་ཁྲིམ་ལྟར་ལག་ལེན་འཐབས་ནི་དང་འཛིན་སྐྱོང་འབད་ནི།
- ✓ Any work inside the CF should be aligned with approved management plan.
- ✓ ཕྱི་ཚུ་གི་ཐུབ་ཐབས་ཕྱི་ཚུ་ལུ་དུས་ཚོད་ཁར་བཟོ་ནི་དང་འབྲེལ་ཡོད་ལས་ཁུངས་དང་ལས་ཕྱི་ཚུ་ལུ་ཐུལ་ནི།
- ✓ Compilation and timely submission of CF reports to relevant stakeholders.
- ✓ འཛིན་སྐྱོང་ཚོགས་པའི་སྐབས་སུ་འཐུས་མི་ཡོངས་སྤྱོད་ལས་བརྒྱ་ཆ་༡༠་ཚང་བ་ཅིན་གྲོས་ཚད་གཏོན་ནི་དབང་ཆ་དཔྱད་གྲོས་ཚད་དེ་ལུ་ངོས་ལན་འབད་དགོ།

- ## 2.2. Role and Responsibility of Chairman (ཁྲིའཛོན་གྱི་འགན་ཁལ།)

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2.3. Role and Responsibility of Secretary) གྲོ་ཆེན་གྱི་འགན་འཁུར།

- ✓ ཁྱིམ་འཛིན་ལུ་གྲོགས་རམ་དང་ཁྱིམ་འཛིན་ངོ་ཚབ་འབད་དགོ།
- ✓ Assist the chairperson and officiate him/her during his/her absence.
- ✓ གྲོ་ཆེན་འདི་ གོང་མཐོང་གི་ཆེན་མོ་ལ་མཆོད་གཞི་ཆོད་ཐུག་ཅིག་མི་ཆེན་མོ་ལ་མཆོད་གཞི་ཆོད་ཐུག་ལུ་ཚུ་གནང་དགོ།
- ✓ Secretary of CF should act as an administrative officer. He/she should manage the correspondence (writing of letters/minutes of meeting) for the CFMG.
- ✓ གོང་མཐོང་གི་ཆེན་མོ་གྱི་ཡིག་སྒྲིག་དང་ཐོ་ཡིག་ཐུན་སྒྲིལ་འབད་དགོ།
- ✓ Should maintain the files and record books for allotment of natural resources.
- ✓ གོང་མཐོང་གི་ཆེན་མོ་གྱི་ཐོན་སྐྱེད་ལུ་ཡིག་བདེན་དཔྱད་འབད་གཞི་ཆེན་མོ་ལ་མཆོད་གཞི་ཆོད་ཐུག་དགོ།
- ✓ Approve the application (s) for allotment of forest resources prior to verification of allotment records in presence of the chairperson.
- ✓ ལོ་ལྟར་གྱི་འགྲུབ་འབྲས་སྒྲིག་ལུ་བཟོ་ནི་དང་འབྲུག་བཟོ་དེ་ཆེན་མོ་ལ་མཆོད་གཞི་ཆོད་ཐུག་ལུ་སྒྲིག་ལུ་ཐུག་དགོ།
- ✓ Prepare annual progress report and submission to forestry official.
- ✓ ལོ་ལྟར་འཕྲས་མི་གི་འཕྲས་བསྐྱེད་འབད་ཆེན་མོ་ལ་མཆོད་གཞི་ཆོད་ཐུག་ལུ་ ཅེས་འཛིན་ལུ་ ཅེས་སྒྲིག་དགོ།
- ✓ Should collect annual membership fees and submit of cash to the Treasurer.
- ✓ སྒྲིག་ཆེན་ནང་དགོ་པའི་ཅ་ཆ་ཚུ་མཁོ་སྒྲུབ་འབད་ནི་དང་མཛོད་ཆས་ཐོ་དེ་ནང་ཐོ་འབད་ནི་ དེ་ལས་སྒྲིག་ཐོ་ཡིག་ཐུན་སྒྲིལ་འབད་ལུ་སྒྲིག་དགོ།
- ✓ Purchase equipments for group, book items in stock register and submit bills to the treasurer.

2.4. Role and Responsibility of Treasurer) སྒྲིག་ཆེན་གྱི་དབང་ཚད་དང་འགན་འཁུར།

- ✓ སྒྲིག་ཆེན་གྱི་དབང་ཚད་གྱི་སྒྲིག་ཐོ་དེ་ཆུ་དྲངས་བསལ་སྒྲིག་བཞག་དགོ།
- ✓ Should maintain proper record of financial transaction of CFMG for transparency.

- ✓ གྲོང་ཁྱེ་ནགས་ཚལ་སྤྱི་ཚུན་ནང་ཁོས་ཀྱི་ཟད་འགྲོ་ཡང་ན་ཞལ་འདེབས་དང་ཆད་འཐུས་བསྟུ་ལན་འབད་ཡོད་མི་ཚུ་གིས་ རྩོད་བཀའ་བཞག་དགོ།
- ✓ Keep record of expenditures, contributions and collection of absentee fees.
- ✓ སྤྱི་ཚུན་ཀྱི་དངུལ་ཚུ་དུས་ཚོད་ཁར་དངུལ་ཁང་ནང་བཅུགས་ནི་དང་བསྟོན་ཚུ་འབད་དགོ།
- ✓ Should do the bank transactions of the CF fund (deposit the fees, fine and other collection in the CF fund account) and withdraw required fund for CF activities.
- ✓ ལོ་ལྟར་དངུལ་འབྲེལ་སྟན་བྱ་གསལ་བཤད་འབད་ནི་དང་འབྲེལ་བ་ཡོད་པའ་ནགས་ཚལ་ཡིག་ཆ་ཚུ་ལྷན་བྱ་ཐུལ་དགོ།
- ✓ Prepare and present annual financial progress report before CFMG and submit report to relevant forest offices.
- ✓ དངུལ་དང་འབྲེལ་བའི་རྩོད་བཀའ་ཚུ་མ་བཟུབ་བཟུབ་སྤྱི་ཚུ་ཚུ་བཞག་དགོ།
- ✓ Should maintain financial record in the CF record books provided to him/her.

2.5. Role and Responsibility of Resoop)རི་སྐྱེས་པ་གི་འགན་འཁལ་(

- ✓ ལོ་གཅིག་ལུ་རྒྱུང་མཐའ་ རི་སྐྱེས་པ་གིས་གྲོང་ཁྱེ་ནགས་ཚལ་ ཉེན་སྲུང་བཟླ་སྒྲོར་ཆར་(༣)་འཆར་གཞི་དང་འབྲེལ་ཏེ་འགོ་འདྲེན་འཐབ་དགོ།
- ✓ Should conduct minimum of three times patrolling in a year, as resolved by CFMG.
- ✓ རགས་ཚལ་བཅའ་ཡིག་དང་སྤྱི་གཞི་ལས་བཟླ་བའ་ལྷ་ཚུ་བཟླ་སྟོགས་དང་སྟན་བྱ་འབད་དགོ།
- ✓ Should report any forestry related offence to the group for case settlement.
- ✓ གྲོང་ཁྱེ་ནགས་ཚལ་ནང་ལས་ཤིང་སྐྱོམ་རྒྱུ་བའ་དུས་སུ་ རགས་ཚལ་གླིང་འཛིན་པ་དང་ཅིག་ཁར་འགྲོ་དགོ།
- ✓ Should accompany forestry official in CF during the marking season.
- ✓ གྲོང་ཁྱེ་ནགས་ཚལ་ནང་ཤིང་བཅུགས་ཡོད་མི་ས་ཁོང་གིས་གནས་སྟངས་ཀྱི་སྟན་བྱ་འབད་དགོ།
- ✓ Should report the conditions of plantation area to CF and forestry official for timely intervention.

- ✓ གྲོང་ཁྱེ་ནགས་ཚལ་སྐོར་སྐྱོད་འབད་བའི་སྐབས་དུས་བཞིན་གྱི་སྒྱུབ་འབྲེས་སྟན་ལུ་ཡུལ་དགོ།
- ✓ Should submit the CF patrolling report in line with reporting format issued.

2.6. Role and Responsibility of CFMG)འཛིན་སྐྱོང་ཁྱེ་ཚན་འཁུས་མི་ཡོངས་ཀྱིས་འགན་འཁུར།(

- ✓ འཁུས་མི་གར་གིས་ གྲོང་ཁྱེ་ནགས་ཚལ་གྱི་མིག་ཡུལ་གྲུབ་ཐབས་ལུ་ལྷ་འབད་དགོ།
- ✓ All CFMG members should work towards common goal.
- ✓ འཁུས་མི་གང་རུང་ཅིག་གིས་ གྲོང་ཁྱེ་ནགས་ཚལ་ནང་ཚུལ་མིན་གྱི་ལྷ་འབད་སར་མཐོང་བར་
ཅིན་སྟན་ལུ་འབད་དགོ།
- ✓ CFMG member (s) should report illegal activities in CF to executive members
- ✓ གྲོང་ཁྱེ་ནགས་ཚལ་གྱི་ཞལ་འཛོམས་དང་ལྷ་འབད་ནི་ལུ་རྒྱབ་སྐྱོར་འབད་དགོ།
- ✓ All CFMG members must attend CF meetings and contribute labour when required.
- ✓ འཁུས་མི་གར་ལུ་ གྲོང་ཁྱེ་ནགས་ཚལ་གྱི་ཐོན་སྐྱེད་ཐོབ་ནིའི་དབང་ཆ་འདྲ་མཉམ་ཡོད།
- ✓ All CFMG members have equal right to resources within CF.
- ✓ འཛིན་སྐྱོང་བཀོད་ཁྲབ་མཁུས་མི་གི་སྒྲུབ་མི་ལུ་ཉན་ཁུར་ཐབས་དགོ།
- ✓ All CFMG members must conform to elected executive members during CF activities.
- ✓ འཁུས་མི་གར་གི་ ལོ་རྒྱུར་མཁུས་དང་ཆད་མཁུས་ཚུ་དུས་ཚོད་ཁར་བཏབ་དགོ།
- ✓ All CFMG members must pay annual and absentee fees on time.
- ✓ གྲོང་ཁྱེ་ནགས་ཚལ་མཁུས་མི་ཡོངས་ཀྱིས་ལྷ་ཚུ་མཉམ་འབྲེལ་གྱི་ཐོག་ལུ་འབད་དགོ།
- ✓ All CFMG members should work with full cooperation.
- ✓ ཞལ་འཛོམས་དང་ལྷ་འབད་བའི་སྐབས་འཁུས་མི་གར་འབད་རུང་ཆད་དང་སྒྱུ་རྩེས་བཟའ་
འདི་འོང་བར་ཅིན་མི་ངོམ་འདི་ཉིམ་དེ་ཁར་ཆད་འབད་ཚུ་ནི་ཨིན།
- ✓ CFMG member (s), including executive members, who comes drunk in meetings or at work shall be considered absent.

2.7. Role and Responsibility of Forestry official)ནགས་ཚལ་འགོ་དཔོན་གི་ཁོ་ཁོས་བྱ་གནས།

- ✓ གོང་མཆོག་གི་ནགས་ཚལ་ནང་གི་ཐོ་ལ་རྒྱུ་བྱ་དགོ།
- ✓ Concerned forestry official should mark/pass timbers as per prevailing rules.
- ✓ གོང་མཆོག་གི་ནགས་ཚལ་ནང་སྟོགས་བཞིང་སྟོམ་ཐོན་པ་དང་སྟོགས་བཞིང་གསལ་ཐབས་སྟོན་དགོ།
- ✓ Should assist the executive members to resolve conflict at the group level.
- ✓ གོང་མཆོག་གི་ནགས་ཚལ་ན་ཐོ་བཞག་ཐངས་མ་ཤེས་པ་ཡོད་ན་སྟོན་བྱ་དགོ།
- ✓ Should train executive members on record keeping.
- ✓ གོང་མཆོག་གི་ནགས་ཚལ་གི་ལོ་ལྟར་རྩིས་ཞིབ་འབད་ནི་དང་སྤྱིང་ཀ་ཡིག་ཚང་ཉེ་བ་ལུ་སྟོན་བྱ་ཐུལ་དགོ།
- ✓ Should conduct internal auditing of CF activities and submit report to JDNP headquarter.

3. Remuneration for Committee members (བཞོན་ཚགས་མཐུས་མི་གི་ཐོབ་པ་ལམ།)

- ✓ སྤྱིར་གཏང་ ཁྲི་འཛིན་ བྱང་ཆན་ རྩིས་འཛིན་ ཁོང་གསུམ་ག་འབད་རུང་གོང་མཆོག་གི་སྟག་ལཱ་ གི་དོན་ལུ་འགོ་འགྲུལ་འབད་དགོཔ་མཐོན་པ་ཅིན་ ཉིན་བསྟར་གི་འཐུས་(༥༠༠)་རེ་ཐོབ་ནི་དང་འགྲུལ་ འཁོར་སྒྲ་༥༥༠/- རེ་ཐོབ་དགོ། ཐོབ་ཐངས་དེ་ཡང་མཆོན་མ་དཱལ་ (༡༥༠,༠༠༠)(གཅིག་འབུམ་ལྔ་ གྲུ་ལངས་ད་ལུ་འགོ་བཙུགས་དགོཔ་ཨིན། དེ་གི་ནང་འཁོད་ དཱལ་ཐོབ་ཐངས་མེད་རུང་ མཆོན་གི་ལཱ་གི་ སྐབས་ ཁོང་(༣)་སྟོན་རྒྱུ་འབད་ལཱ་འགོ་དྲོན་ཐབ་དགོཔ་ཨིན།
- ✓ The Executive Members on official tour specifically to perform works related to CF shall be paid Nu. 500/- as DSA and 350/- as TA. Such payment from the CF fund will resume only when the fund accumulation attains Nu.150,000/- (one hundred and fifty thousand) in the CF account. Until such time, the executive member will go on tour to conduct CF functions on rotation basis.

གྲོང་ཁྱེན་གསེང་ཆེན་གྱི་ཐོན་སྐྱེད་ཚུ་ འཕུས་མི་གར་ལུ་འདྲ་མཉམ་སྡེ་ཐོབ། བྱིས་རྒྱུ་ཆོག་པའི་གནད་བ་
 ཐོབ་གཞིན་ལས་ ཤིང་ཆའི་རིགས་ཚུ་ རྒྱལ་ཆེན་དང་རང་བཞིན་སྤྱད་སྦྱོར་གྱི་བཅའ་ཡིག་དང་སྤྱི་གཞི་
 འབྲེལ་ཏེ་ རྒྱ་ཡིག་ཁྲི་འཛིན་ལུ་སྤྱུལ་དགོ། རྒྱ་ཡིག་འདི་ཁྲི་འཛིན་གྱི་དབྱེ་ཞིབ་དང་ངོས་ལེན་འབད་འདི་
 མེད་འོག་བདེ་རྒྱལ་ཉེ་བ་ནང་གནད་བ་གྱིས་དོན་ལས་བཟུགས་དགོ།

- ✓ In case of, dead case in a family of CFMG, 1 no firewood and poles up to 29 numbers can be allowed on free of royalty (permit fee shall be collected)
- ✓ དོ་རུང་སེར་ཏྲོག་ཅད་མ་ཟེར་མི་ཐོན་སྡེད་དེ་ ཚོག་ཐམ་རིམ་ལྷག་དང་ རགས་ཚལ་དང་རང་
བཞིན་སྤང་སྡོམ་གྱི་བཅའ་ཡིག་དང་སྤྱི་གཞི་དཔེ་འབྲིལ་ བསྐྱ་ལེན་འབད་ཚོག། གཞན་གིང་མེན་
འཐོན་སྡེད་གྱི་རིགས་ཚུ་ གྲོང་ཁྱེ་ནགས་ཚལ་གྱི་ ཚོག་ཐམ་རིམ་ལྷག་དང་འབྲིལ་བསྐྱ་ལེན་འབད་
ཚོག།
- ✓ The CF members can collect other NWFP by obtaining CF permit, but in case of *Paris polyphylla*, it should follow prevailing guidelines and FNCRR 2017 and amendments that followed.
- ✓ ལམ་ལྷག་དང་སྤྱི་གཞི་ལེགས་བཅས་དང་འབྲིལ་མ་གཏོགས་གྲོང་ཁྱེ་ནགས་ཚལ་ལས་རྩི་དང་
བྱེམ་ཚོང་འབྲེལ་ཐབས་མི་ཚོག།
- ✓ Unless permitted by new amendments after FNCRR 2021, commercialization of stone/gravels/sand shall not be allowed in Community Forest.
- ✓ གྲོང་ཁྱེ་ནགས་ཚལ་གྱི་འུར་ལཱ་ཚུ་འབད་བའི་སྐབས་སུ་ འཕུས་མི་གཅིག་བཟའ་ཚང་ནང་གི་རྒྱུན་
ཡུ་ན་ལོ་བསྟར་གྱི་ལོ་མཚན་འདྲུལ་ཅིག་ཁ་སྤྱོད་པར་ཅིན་ ཉིམ་དེ་ཁར་འཕུས་མི་འདི་ལུ་ཆད་
མི་ཕོག་ཨིན་ཅུང་འཕུས་མི་འདི་གི་བཀོད་ཚོགས་གྱི་འཕུས་མི་ལུ་གནང་བ་བཀལ་འདི་ ཆ་ཚོག་
འབད་དགོ།
- ✓ A member undergoing difficult times due to death of family members or s/he is performing annual ritual (Lochoe) shall be exempted from communal CF work on the day. However, the member must inform the executive committee and the approval.
- ✓ གྲོང་ཁྱེ་ནགས་ཚལ་གྱི་དོན་ལུ་འུར་ལཱ་ཚུ་རྒྱབ་པའི་སྐབས་ འཕུས་མི་ག་ར་ཚངས་དགོཔ་ཨིན་ལཱ་
མིན་འུར་ལཱ་རྒྱབ་པའི་སྐབས་འཕུས་མི་གང་ཅུང་གཅིག་ཆད་ལུང་པ་ཅིན་ཆད་འཕུས་ཅུབ་(༣༠༠)
བཏང་དགོཔ་ཨིན་འཕུས་མི་ག་ར་འབད་ཅུང་ ལོ་བསྟར་འུར་ལཱ་ཡོངས་བསྐྱོམས་ལས་ ཉུང་
མཐའ་རྒྱ་ཆ་(༥༠)འབད་དགོ།

- ✓ གཤམ་སྤྱོད་སྤྱོད་འབྲུལ་ལེན་མིའི་འཐུས་མི་གཅིག་གིས་ སྤྱོད་འབྲུལ་དེ་ཉིལ་བུམ་རང་ དུས་ཚོད་ ཁར་བཏབ་མ་བཏུབ་པ་ཅིན་དུལ་འབྲུལ་ཁྲིམས་ལུག་བཏར་ལོ་བསྟར་སྤྱོད་རྒྱ་ཆ་(༢༥)འི་ཕོག་ བྱི་མིན།
- ✓ If a member fails to pay back the whole loan (Principal + Interest) within specified term. The defaulter shall be liable for penalties @ 24 % per annum as per financial rules.
- ✓ འཆར་ལོ་མཐུག་བསྟུ་བའི་སྐབས་ རྩེ་ཚན་ནང་ལུ་མ་དུལ་འབྲུལ་གཅིག་(༡༠༠,༠༠༠)ལས་ལྷག་ ཏེ་ཡོད་པར་ཅིན་ རྒྱ་ཆ་(༥༠)འདི་འཐུས་མི་ནང་འཁོད་བགོ་བཤའ་རྒྱབ་ཆོག།
- ✓ At the end of the plan period (10th year) the GDCF decided to divide 50 percent of the accumulated fund provided the accumulated fund exceeds 100,000/- (one hundred thousand)
- ✓ ལོ་ལྟར་འཐུས་མིའི་འཐུས་(༡༠༠)འདི་ ལོ་བསྟར་དབྱིན་ཟླ་དང་པའི་ནང་འཁོད་སྟུ་བྱི་མིན།
- ✓ The CFMG will collect the annual membership fees of Nu. 100/- per member, in the month of January every year, through the plan period.
- ✓ ཤིང་འབྲེལ་འབྲེལ་ཕ་ ཡང་ན་ ར་འབལ་འབལ་ཕ་ཚུ་ ཚོང་འབྲེལ་གྱི་དོན་ལུ་ལྷུ་སྤྱོད་ཆོག། དེ་ འབད་ཕ་ད་ལོ་ལྟར་ཐོབ་ཐངས་ལས་ཚུམ་པབ་དགོ། ཤིང་ཆས་ཚུ་བཟོ་བསྐྱུན་འབད་སྟེ་ཡང་བཙོང་ ཆོག།
- ✓ CFMG shall be allowed to sell the fallen/uprooted trees from the CF to outsider at commercial rate upon deducting the removed quantity from the AHL. Further, CFMG shall gear up to promote finish product by converting the fallen/uprooted trees to fetch more income.
- ✓ གོང་མེད་རྒྱལ་ཚུལ་ནང་དགོ་འདོད་མེད་པ་འམ་མགྱོགས་པར་སྦྱོམ་འགྱོ་མི་ ཤིང་རིག་(དཀར་ ཤིང་)ཚུ་དགོས་མཁོ་དང་བསྟུན་སྤྱི་ཀའི་གཙོ་འཛིན་ལས་གདང་བ་ལན་ཐོག་འོང་འབབ་གྱི་དོན་ ལུ་ཚོང་ཆོག།
- ✓ CFMG can decide to sell fast growing Macaranga spp to BPL to generate income after seeking approval from the Chief Forestry Officer.

5. Royalty rate for Resources in CF (གོང་ཁྲིམས་ཚུལ་མཆར་གཞི་ལྷན་ཁྲིམས་ལྟུང་ལྟུང་ལྟུང་)

Sl no.	Forest product/membership fees	Procedures	Fees (Nu.)
1	Membership fees	Collection shall be done during General meeting every year by the Treasurer & deposit in the CFMG account.	Nu.100/year/hh
2	<i>Juglans regia</i> , <i>Morus macroura</i> and <i>Michelia champaca</i> (within the CFMG members)	A CFMG member is eligible for 1 no. fallen tree only, in ten years. Cham/Tsim& Darshing will retain to grow to attain Drashing size and no permit shall be issued.	Drashing Nu.4000/- Not allowed to sell
	Walnut, <i>Morus macroura</i> and <i>Michelia champaca</i> (For outsiders)	The CFMG shall decide to sell excess timber (if any) to outsiders through open auction with prevailing NRPC rate as the base price. CFMG members will get the preference to buy the timber upon payment of NRPC. All sale of timber from CF must be in log form.	NRPC is calculated on cubic feet (cft.) and shall be the basis for sale of timber from the CF.
3	<i>Michelia champaca</i> (Khashing) (Within the CFMG members)	A CFMG member is eligible for 1 no. fallen tree only, in ten years. Cham/Tsim& Drashing will retain to grow to attain Drashing size and no permit shall be issued.	Darshing. Nu.3000/- Not allowed to sell.
	<i>Michelia champaca</i> (Khashing) (For outsiders)	Auction excess timber as above	

4	<i>Betula alnoides</i> (Tap)	Auction excess timber as above	Drashing.Nu.60/-
		No Cham size will be allotted for outsiders.	Cham. Nu. 50/-
5	<i>Toon ciliata</i> (Chuen)	Auction excess timber as above	Drahing.Nu.500/-
		No cham size will be allotted for both the outsiders and CFMG members. Retain to attain Darshing size.	
6	Other timber species not listed above.	For the outsiders prevailing market price	Darshing.Nu.40/- Cham. Nu.30/- Tsim. Nu.10/- D/chung. Nu.5/-
7	Fire wood	For the outsiders prevailing market price	Nu.40/tree
8	Fencing poles	For the outsiders prevailing market price	Nu.5/pole
9	Grazing fees	For the cattle grazing, outsiders need to get approval from CFMG & need to pay fees.	Nu.50/head/year
10	Drinking water	Every water user shall pay yearly to CFMG	Nu.100/hh/year.

6. Offences and penalties (ཉེས་ཚུན་དང་ཉེས་ཆད།)

Timber products	Timber size	CFMG members		Non CFMG members	
		Fine	Product	Fine	Product
Juglans regia, <i>Michelia champaca</i> & <i>Morus macroura</i> (Tashing/Khashing/Tshendey)	Drashing དྲ་ཤིང	15,000/-	Product will be seized.	30,000/-	Confiscate or compensation at fair market value.
	Cham ལྷམ་	10,000/-		20,000/-	
	Tsim རྩམ་	5,000/-	Market value per cft.	10,000/-	
	Dangchung	2,000/-		5,000/-	

	གདང་བཅུ་				
<i>Betula alnoides</i> (Tapshing)	Drashing དྲ་ཤིང Cham ལྷམ་ Tsim སྤུམ་ Dangchung གདང་བཅུ་	3,000/- 1,500/- 500/- 200/-	Product will be seized. Market value per cft.	5000/- 3000/- 1000/- 500/-	Confiscate or compensation at fair market value.
<i>Toona ciliate</i> (Chuen)	Drashing དྲ་ཤིང Cham ལྷམ་ Tsim སྤུམ་ Dangchung གདང་བཅུ་	3000/- 1500/- 1000/- 500/-	Do	6000/- 5000/- 3000/- 1000/-	Do
Other timber species which are not listed above.	Drashing དྲ་ཤིང Cham ལྷམ་ Tsim སྤུམ་ Dangchung གདང་བཅུ་	2500/- 1500/- 500/- 300/-	Do	5000/- 3000/- 1000/- 300/-	Do
Ferns and mushrooms		2000/-	Do	5000/-	Do
Leaved mould				5000/- Per T/L	
Grazing	The cattle grazing more than five days in CF area shall be fined.			100/head	
Sand/Boulders/wildlife	The CFMG has no right over sand, boulder & wildlife. The committee members/CFMG must immediately report any wildlife poaching and hunting cases in the CF to the park ranger office.				

7. Fine and Penalties (ཉས་ཆད་དང་ཉས་ཁྲིམས།)

གྲོང་ཁྱེ་ནགས་ཚལ་ནང་ཁྲིམས་དགོ། ཁྲིམས་ལས་བརྒྱལ་བ་ཅིན་ཉས་ཁྲིམས་ཕོབ་ཨིན།

Community forest must be guided by law and defaulter(s) must be liable for fines and penalties.

- ✓ གྲོང་ཁྱེ་ནགས་ཚལ་གྱི་ལྷ་འབད་བའི་སྐབས་དང་འཛུམས་འདུ་ཚུ་རྒྱབ་བའི་སྐབས་ ཆད་ལུད་ཡོད་པར་ ཅིན་ཉས་ཆད་དཔུལ་ཀྱམ་(༣༠༠)་རེ་ཕོག་ནི་ཨིན།དེ་ཡང་གཏུབ་བདེ་ཉི་ལུ་དམིགས་སྟེ་ ཉེ་མའི་ལོ་ གིས་ཆད་དེ་ཚུ་ ལོ་གསར་པ་གི་སྤྱི་ཟླ་དང་པའི་ནང་འཁོད་བཟུ་དགོ།གལ་སྲིད་ཆད་ཚུ་དུས་ཚོད་ཁར་ རྒྱུད་མ་བཏུབ་དུམ་འབད་བ་ཅིན་བཀོད་ཚུགས་འབྱུང་མི་གྱི་གྲོས་ཚད་ལྟར་ཉས་ཁྲིམས་ཕོག།
- ✓ Absentees during meetings and other communal works related to CF shall be liable for fine of Nu. 300/-. The CFMG members must pay the absentee fines of the previous year within the month of January of the following year. If any members fail to pay the fines within the stipulated period, the executive committee will meet to decide appropriate action to the defaulters.
- ✓ སྒོ་ཁྱོར་སེམས་ཅན་ཚུ་ཤིང་བཅུགས་སའི་ས་ཁོངས་ན་འཇུལ་བར་ཅིན་ཁྲིམས་འགལ་ཨིན་ དེ་འབད་མ་ ཁྱོར་སེམས་ཅན་འཇུལ་ས་མཐོང་པར་ཅིན་ཉས་ཆད་དཔུལ་ཀྱམ་(༡༠༠)་རེ་ཕོག་ནི་ཨིན།
- ✓ Grazing in plantation is illegal and it is liable for fine of Nu. 100/- per occasion.
- ✓ གྲོང་ཁྱེ་ནགས་ཚལ་ན་ཁྲིམས་འགལ་གྱི་ལྷ་འབད་བའི་སྐབས་ཁྱུ་ལུ་མི་མི་ངོམ་དེ་ལུ་ ཉས་ཆད་ཡོངས་ རྒྱུ་ལས་རྒྱ་ཆ་(༢༥)་ལེགས་སྤྱོད་འབད་བྱིན་ནི་ཨིན།
- ✓ First hand informer of any illegal activities in CF shall be rewarded with 25% of the fine as per FNCRR-2017 and its amendments.
- ✓ གྲོང་ཁྱེ་ནགས་ཚལ་ན་ཕུགས་སྒྲིགས་རག་རོག་བཀོ་མི་ཚུ་མཐོང་པར་ཅིན་ཉས་ཆད་དཔུལ་ཀྱམ་ (༢༠༠)་ཕོབ་ཨིན།
- ✓ Littering inside community forest, either by commuter, CFMG members or power-chain operators shall be liable for fine of Nu. 200/- per occasion.
- ✓ གྲོང་ཁྱེ་ནགས་ཚལ་ནང་ལས་ཐོན་མི་ཤིང་ཆས་ཚུ་སྤྱི་འོག་ལས་ཕྱི་ཁར་འབག་མི་ཚོགས་སྤྱོད་འབག་ འགྱོ་བའི་སྐབས་ཁྱུ་ཚུ་དང་བ་ཅིན་བཀོད་ཚུ་གྲུ་ཉས་ཆད་དཔུལ་ཀྱམ་(༥༠༠)་རྒྱུད་དགོབ་ཨིན།

- ✓ Transiting of timbers beyond Drachukha chiwog is strictly restricted. Violator (s) of the provision shall be liable for *Lum-sum* fine of Nu. 5000/- per occasion.
- ✓ གྲོང་ཁྱེ་ནགས་ཚལ་ནང་ལས་ཐངས་(༢)་པ་འབད་མི་ལུ་ ཉམ་ཚུད་རྒྱ་ཆ་(༥༠)་ཐེད་པ་ཕོག་ནི་དང་ ཐངས་(༣)་པ་ལས་ཡར་ལྷག་རྒྱ་ཆ་ལས་(༡༠༠)་ཕོག་ནི་ཨིན་པ་མཐོང་ཉམ་ཚན་འདི་གྲོང་ཁྱེ་ནགས་ ཚལ་གྱི་འཐུས་མི་ཨིན་པ་ཅིན་བྲིམས་འགལ་ཐངས་(༣)་འབད་བའི་སྐབ་ལས་འཐུས་མི་འོ་ཐོབ་ལམ་ག་ ཅི་ཡང་མེད་པར་གོང་ཁྱེ་འབད་དགོ།
- ✓ Offence in CF impact the AHL, therefore, 2nd time defaulter (s) shall be liable for 50 % more fines and compensation of the calculated amount and repeated offence for 3rd time shall be liable for 100 % more fine and compensation of the same. If offender is a CFMG member (s), s/he should be terminated without benefits.

8. Meetings(འཛུམས་འདུ)

- ✓ ལཱ་རྒྱུ་འཛུམས་འདུ་ཚར་(༢)་ཇེས་པར་དུ་ཚོགས་དགོ།གཞན་དུས་མེན་གྱི་འཛུམས་འདུ་ཚོགས་ དགོཔ་འཛོན་ན་ཁྲི་འཛོན་གྱི་འགོ་དྲིན་ཐབས་ཚུགས་ཨིན།
- ✓ The CFMG must mandatorily meet twice in a year, however, Chairperson has the right to call up for ad hoc meeting based on requirements of the CF plan implementation.

9. Record keeping(མཆིག་བཞག་དགོཔ།)

- ✓ གྲོང་ཁྱེ་ནགས་ཚལ་གྱི་ཡིག་ལྟང་དང་གལ་ཅན་གྱི་ཡིག་ཆ་དེ་ལས་ཡིག་ཐོ་བཞག་དགོཔ་འོ་ཐོ་དེབ་ ཚུ་ག་ར་མ་བདུབ་བདུབ་སྤེ་བཞག་དགོཔ་འདི་གལ་ཆེ་དུགས་ཅིག་སྤེ་ཆེས་དགོ། ཐོ་དང་ཡིག་ཆས་ ཚུ་ག་ར་བྱ་སྤོའི་རིམ་པ་དང་འབྲེལ་བཞག་དགོ།
- ✓ File management and record keeping in Community Forest is very important for monitoring and evaluation. Therefore, the executive members must maintain all important documents and records in the books and files issued to them with proper labeling as per the guidelines.

10. Conflict Management (རྒྱབ་འགལ་འཛིན་སྐྱོང་འབད་ཐངས་)

- ✓ འཛིན་སྐྱོང་འབད་བའི་སྐབས་རྒྱབ་འགལ་རེ་འཛོན་པ་ཅིན་དང་པ་ར་བཀོད་ཚོགས་འཐུས་མི་ གིས་ནང་འགྲིག་འབད་བྱིན་དགོ།
- ✓ For conflict arising as a result of CF plan implementation shall be mediated by CFMG executive members.

- ✓ ཐེངས་གཅིག་བཀོད་ཚུགས་འབྲས་མི་གིས་ནང་འགྲིག་འབད་འབད་འདི་མ་ཚུགས་པ་ཅིན་ གཤམ་ཡོད་ནགས་ཚལ་འགོ་དཔོན་ཚུ་གི་ལྷན་ཐབས་ཀྱིས་ཐོག་ལུ་འཆམ་ཁ་བཟོ་དགོ།
- ✓ For 2nd instance, concerned forestry personnel will facilitate the conflict resolution process aimed to solve the conflicts.
- ✓ གཤམ་སྲིད་དེ་འབད་ཡང་འགྲིག་མ་ཚུགས་པ་འབད་བར་ཅིན་འབྲུག་གཞུང་གི་བྲིམས་ལུག་ལྷན་ཅིང་གཞི་བྱུང་ནི་དབང་ཆ་མི་ངོ་རང་སོ་ལུ་བྱིན་དགོ།
- ✓ If any individual is not satisfied with the conflict resolution at CFMG level, they have the right to resort to court case.

11. Amendments of By-laws (བྱུང་གྲིམས་ལེགས་འཛུགས་)

སྒྲིལ་ཐོག་ནས་ཚལ་གྱི་ཟུར་ཁྲིམས་དེ་དུས་ཀྱི་རྒྱུར་བ་དང་སྤྱོད་ལེགས་འཛུགས་འབད་ཆོག་ལེགས་འཛུགས་
 འབད་བའི་རྒྱལ་སྤྱོད་འབྲས་སྤྱོད་ལྷན་ཁྲུང་གཅིག་གི་ལེགས་ཚུན་ན་གནང་བ་ལྷན་ཁྲུང་གི་དོན་ལཱ་སྤྱོད་ཐོག་
 CFMG members are allowed to amend the by-laws based on emerging issues and
 challenges, but the executive committee must submit a copy of their amendment report to
 the park management for endorsement.

12. Power of Department (ནགས་ཚལ་ལས་ཁུངས་ཀྱི་དབང་ཆ།)

- ✓ གཤམ་སྤྱི་དུང་གྲོང་ཁྱེ་ནགས་ཚལ་མཆར་གཞི་དེ་སྤྲོམ་ཡེ་ན་དགོངས་གྲོལ་འགྱུ་དགོལ་དུ་མ་འབད་བར་
ཅིན་ཁྱེ་ཆོན་མ་དངུལ་ཡོངས་སྤོམ་ལས་རྒྱ་ཆ་(༥༠)འདི་གཞུང་གི་འོང་འབབ་སྤྱེ་གཞུང་གཞིས་
འབད་དགོ།
- ✓ In the event, the CFMG is dissolved or terminated, 50% of the accrued fund from
sale of forest produces shall be forfeited to the government revenue.
- ✓ གཤམ་སྤྱི་དུང་སྤྱོད་པའི་གྲོང་ཁྱེ་ནགས་ཚལ་མཆར་གཞི་དང་སྤྱོན་ལ་རྒྱ་མ་འབད་མེ་ཡེ་ན་ཁྱེ་ཆོན་
དེ་གིས་རྒྱལ་འབྲུན་མ་འབད་བར་ཆ་མེད་གཏང་དགོལ་འཛོན་པ་ཅིན་ལག་བྱུར་ཆ་མེད་གཏང་
ནའི་དབང་ཆོད་འདི་སྤྱིལ་བུམ་ནགས་ཚལ་ལས་བྱུངས་ཀྱི་ཡོད་པ་ཨིན།
- ✓ In case, if the CFMG has record of continued disparity and non-compliance of way-
forward revealed, the department of Forests and Park Services has the full authority
to cancel the CF certificate and invalidate the management plan.

Annexure 1: Plant Species found in Community Forest

Sl.No	Name of Species	Sl. No	Name of Species
1	<i>Alnus nepalensis</i>	17	<i>Lindera assamenses</i>
2	<i>Artemisia spp</i>	18	<i>Macaranga spp</i>
3	<i>Betula alnoides</i>	19	<i>Girardinia diversifolia</i>
4	<i>Castanopsis tribuloides</i>	20	<i>Rhus succedanea</i>
6	<i>Celtis</i>	21	<i>Rubus ellipticus</i>
7	<i>Cinnamomum spp</i>	22	<i>Juglans regia</i>
8	<i>Cinnamomum</i>	23	<i>Morus species</i>
9	<i>Daphne spp</i>	24	<i>Toona spp</i>
10	<i>Daphniphyllum chartceum</i>	25	<i>Misechesa spp</i>
11	<i>Lyonia ovalifolia</i>	26	<i>Michelia spp</i>
12	<i>Quercus griffithii</i>		
13	<i>Rhododendron sp</i>		
14	<i>Eurya cerasifolia</i>		
15	<i>Exbucklandia populnea</i>		
16	<i>Ficuss pp</i>		

Annexure 2: Abstracts of First CF Plan achievements and challenges

Areas brought under plantation in the first plan period

Sl.No	Location	Area(ha)	No. of seedling planted and species types			Year
			Champ spp	Angary spp	Cypress spp	
1.	Churagang I	1.5	1000	0	0	2016
2.	Churagang I	4	2050	100	300	2018

3.	Churagang I	2	1700	100	0	2019
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a. Members: 25

b. Progress Report (2012 to 2022).

1. Creation of plantation
2. Reduced in Illegal activities
3. No misuse of timber
4. Improvement of forest condition

c. Financial status

Income: Nu.660599.00

BDBL: Nu.285869.00

Active Loan: Nu. 368,000.00

Cash in hand: Nu.6730.00

Donation: Nu.50000.00 for Annual Rimroo at Drachukha 2020

d. Community Benefits

New rural house construction=4

No. of rural house renovation =6

No of toilet construction =20

No of cattle shed construction =20

No of other constructions =2 (Drachukha Lhakhang= 1, Meeting Hall= 1)

e. Timber allotment (As per available record)

Drashing = 184

Cham = 64

Tsim = 100

Dangchung=40

Poles = 201

Firewood =191 (dead, dying and fallen trees) rural use

NWFPs = (Stone=100T/L for CF farm road maintenance, Stone =51T/L Rural use,

Leaf mould=1T/L for Drachukha Flower Group's garden use)

Commercial timber = (Fire wood = 572m3 from sanitation Tshorim Block II to BBPL, Tala)

f. Constraints in past plan

Weak record keeping

Economically weak

Improper handing taking

Annexure 3: List of Community Forest Management Group Members

Sl.no.	Name	Gender	CID NO.	Village	Household No.	Gung no	Thram no.
1	Bidha	Female	11003000077	Gangkha	100300011	Tha-4-09	55
2	Gangri	Male	11003000032	Kumar	100300005	Tha-4-04	18
3	Rinchen Dema	Female	11003000072	Kumar	100300010	Tha-4-08(kha)	44
4	Tshomo	Female	11003000066	Kumar	100300009	Tha-4-08(ka)	44
5	Kado Drukpa	Male	10402000034	Sebja	100300094	Tha-4-70	81
6	Damchoe Wangmo	Female	11003000016	Pebje	100300003	Tha-4-02	75
7	Phub Dorji	Male	11003000025	Ta Ka Zhi	100300004	Tha-4-03	59
8	Tshering Lhamo	Female	11003000003	Seb Zhung	100300001	Tha-4-01(ka)	57
9	Bidha	Female	11003000011	Seb Zhung	100300002	Tha-4-01(kha)	57
10	Pema Dema	Female	11003000050	Jug Na	100300007	Tha-4-06	83
11	Damcho Wangmo	Female	10402000337	Sa Chay Na	100300097	Tha-4-73	79
12	Damcho	Male	11003000043	Om Chay Na	100300006	Tha-4-05	84
13	Nima Dema	Female	11003000059	Jang gu	100300008	Tha-4-07	12
14	Zangmo	Female	10402000265	Jang gu	100300069	Tha-4-50	76
15	Sangay	Female	11003000060	Jang gu	100300125	Tha-4-nil/48	117
16	Dolma	Female	11003000049	Jug Na	100300105	Tha-4-nil/28	154
17	Tshering Lhamo	Female	10402000046	Yurwata Ka	100300096	Tha-4-72	82
18	Tshering Pelmo	Female	11003000092	Tashi Dingkha	100300013	Tha-4-11	50
19	Kezang Dema	Female	11003000002	Sem Zhung	100300103	Tha-4-nil/26	161
20	Damchoe Tshering	Male	11003000085	Kumar	100300012	Tha-4-10	18
21	Tshering Gyem	Female	10402000153	Sa Chay Na		Tha-4-0	0
22	Wangchuk Pem	Female	11003000101	Tashi Dingkha	100300013	Tha-4-11	50
23	Tshering Zangmo	Female	11003000097	Tashi Dingkha	100300126	Tha-4-nil/49	172
24	Sangay Rinchen	Male	11003000066	Kumar	100300138	Tha-4-08(ka)	44
25	Kaka	Female	11003000067	Kumar	100300138	Tha-4-nil/60	111

Annexure 4: Operational Inventory, (compilation sheets for N and T trees in Churagang Block)

N-Trees

1. CF Name		Gadhen Drongyuel CF			4. Block Area		63.48	
2. Block Name		Churagang			5. Compiling date		24/4/2022	
3. No of plots		36			6. Species group		Quercus sp	
col1	col2	col3	col4	col5	col6	col7	col8	col9
		(3 decimals)	(3 decimals)	(3 decimals)	(0 decimals)	(2 decimals)	(2 decimals)	(2 decimals)
dbh class (cm)	class basal area (m2)	class volume (m3)	plot size (ha)	expansion factor	tally	nrha (stems/ha)	basha (m2/ha)	volha (m3/ha)
10-19	0.017	0.093	0.05	0.556	0	0.00	0.00	0.00
20-29	0.047	0.345	0.05	0.556	4	2.22	0.10	0.77
30-39	0.093	0.828	0.05	0.556	3	1.67	0.16	1.38
40-49	0.156	1.598	0.05	0.556	5	2.78	0.43	4.44
50-59	0.233	2.705	0.05	0.556	10	5.56	1.29	15.03
60-69	0.327	4.196	0.05	0.556	4	2.22	0.73	9.32
70-79	0.436	6.112	0.05	0.556	7	3.89	1.70	23.77
80-89	0.561	8.495	0.05	0.556	3	1.67	0.94	14.16
90-99	0.701	11.383	0.05	0.556	3	1.67	1.17	18.97

N-Trees (Continued)

1. CF Name		Gadhen Drongyuel CF			4. Block Area		63.48	
2. Block Name		Churagang			5. Compiling date		24/4/2022	
3. No of plots		36			6. Species group		Rhodo sp	
col1	col2	col3	col4	col5	col6	col7	col8	col9
		(3 decimals)	(3 decimals)	(3 decimals)	(0 decimals)	(2 decimals)	(2 decimals)	(2 decimals)
dbh class (cm)	class basal area (m2)	class volume (m3)	plot size (ha)	expansion factor	tally	nrha (stems/ha)	basha (m2/ha)	volha (m3/ha)
10-19	0.017	0.075	0.05	0.556	0	0.00	0.00	0.00
20-29	0.047	0.225	0.05	0.556	4	2.22	0.10	0.50
30-39	0.093	0.579	0.05	0.556	2	1.11	0.10	0.64
40-49	0.156	1.072	0.05	0.556	0	0.00	0.00	0.00
50-59	0.233	1.755	0.05	0.556	0	0.00	0.00	0.00
60-69	0.327	2.646	0.05	0.556	0	0.00	0.00	0.00
70-79	0.436	3.763	0.05	0.556	0	0.00	0.00	0.00
80-89	0.561	5.120	0.05	0.556	0	0.00	0.00	0.00
90-99	0.701	6.731	0.05	0.556	0	0.00	0.00	0.00

N-Trees (Continued)

1. CF Name		Gadhen Drongyuel CF			4. Block Area		63.48	
2. Block Name		Churagang			5. Compiling date		24/4/2022	
3. No of plots		36			6. Species group		Other sp	
col1	col2	col3	col4	col5	col6	col7	col8	col9
		(3 decimals)	(3 decimals)	(3 decimals)	(0 decimals)	(2 decimals)	(2 decimals)	(2 decimals)
dbh class (cm)	class basal area (m2)	class volume (m3)	plot size (ha)	expansion factor	tally	nrha (stems/ha)	basha (m2/ha)	volha (m3/ha)
10-19	0.017	0.081	0.05	0.556	52	28.89	0.49	2.34
20-29	0.047	0.279	0.05	0.556	72	40.00	1.88	11.16
30-39	0.093	0.640	0.05	0.556	32	17.78	1.65	11.37
40-49	0.156	1.191	0.05	0.556	8	4.44	0.69	5.29
50-59	0.233	1.961	0.05	0.556	3	1.67	0.39	3.27
60-69	0.327	2.970	0.05	0.556	2	1.11	0.36	3.30
70-79	0.436	4.239	0.05	0.556	2	1.11	0.48	4.71
80-89	0.561	5.788	0.05	0.556	1	0.56	0.31	3.22
90-99	0.701	7.633	0.05	0.556	5	2.78	1.95	21.20

Stand and Stock Table for N-Trees

1. Name of CF	Gadhen Drongyuel CF													
2. Species Group	Broadleaf													
3. No of Plots	36													
4. Block Name	Churagang													
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	%
Others	28.89	40.00	17.78	4.44	1.67	1.11	1.11	0.56	2.78				98.33	79.73%
Oak	0.00	2.22	1.67	2.78	5.56	2.22	3.89	1.67	1.67				21.67	17.57%
Rodrodendron	0.00	2.22	1.11	0.00	0.00	0.00	0.00	0.00	0.00				3.33	2.70%
													0.00	0.00%
total broadleaf	29	44	21	7	7	3	5	2	4	0	0	0	123	100.00%
total all species	29	44	21	7	7	3	5	2	4	0	0	0	123	100.00%
%	0.23	0.36	0.17	0.06	0.06	0.03	0.04	0.02	0.04	0.00	0.00	0.00	100.00%	

Basal Area of N-Trees

1. Name of CF			Gadhen Drongyuel CF											
2. Species Group			Broadleaf											
3. No of plots			36											
3. Name of Block			Churagang											
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	%
Total conifer	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00%
Others	0.49	1.88	1.65	0.69	0.39	0.36	0.48	0.31	1.95				8.21	55.00%
Oak	0.00	0.10	0.16	0.43	1.29	0.73	1.70	0.94	1.17				6.51	43.61%
Rodrodendron	0.00	0.10	0.10	0.00	0.00	0.00	0.00	0.00	0.00				0.21	1.39%
Total broadleaf	0.49	2.09	1.91	1.13	1.68	1.09	2.18	1.25	3.12	0.00	0.00	0.00	14.93	100.00%
Total all species	0.49	2.09	1.91	1.13	1.68	1.09	2.18	1.25	3.12	0.00	0.00	0.00	14.93	100.00%
%	0.03	0.14	0.13	0.08	0.11	0.07	0.15	0.08	0.21	0.00	0.00	0.00	100.00%	

Volume of N-Trees

1. Name of CF	Gadhen Drongyuel CF													
2. Species Group	Broadleaf													
3. No of plots	36													
3. Name of Block	Churagang													
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	%
Total conifer	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00%
Acer													0.00	0.00%
Betula													0.00	0.00%
Others	2.34	11.16	11.37	5.29	3.27	3.30	4.71	3.22	21.20				65.86	42.53%
Oak	0.00	0.77	1.38	4.44	15.03	9.32	23.77	14.16	18.97				87.83	56.73%
Rodrodendron	0.00	0.50	0.64	0.00	0.00	0.00	0.00	0.00	0.00				1.14	0.74%
Total broadleaf	2.34	12.43	13.39	9.73	18.30	12.62	28.48	17.37	40.17	0.00	0.00	0.00	154.83	100.00%
Total all species	2.34	12.43	13.39	9.73	18.30	12.62	28.48	17.37	40.17	0.00	0.00	0.00	154.83	100.00%
%	0.02	0.08	0.09	0.06	0.12	0.08	0.18	0.11	0.26	0.00	0.00	0.00	100.00%	

T-Trees

1. CF Name		Gadhen Drongyuel CF			4. Block Area		63.48	
2. Block Name		Churagang			5. Compiling date		24/4/2022	
3. No of plots		36			6. Species group		Acer	
col1	col2	col3	col4	col5	col6	col7	col8	col9
		(3 decimals)	(3 decimals)	(3 decimals)	(0 decimals)	(2 decimals)	(2 decimals)	(2 decimals)
dbh class (cm)	class basal area (m2)	class volume (m3)	plot size (ha)	expansion factor	tally	nrha (stems/ha)	basha (m2/ha)	volha (m3/ha)
10-19	0.017	0.113	0.05	0.556	0	0.00	0.00	0.00
20-29	0.047	0.334	0.05	0.556	0	0.00	0.00	0.00
30-39	0.093	0.691	0.05	0.556	0	0.00	0.00	0.00
40-49	0.156	1.190	0.05	0.556	1	0.56	0.09	0.66
50-59	0.233	1.839	0.05	0.556	2	1.11	0.26	2.04
60-69	0.327	2.642	0.05	0.556	0	0.00	0.00	0.00
70-79	0.436	3.605	0.05	0.556	3	1.67	0.73	6.01
80-89	0.561	4.733	0.05	0.556	0	0.00	0.00	0.00
90-99	0.701	6.026	0.05	0.556	2	1.11	0.78	6.70
100+	0.858	7.491	0.05	0.556	0	0.00	0.00	0.00

T-Trees (Continued)

1. CF Name		Gadhen Drongyuel CF			4. Block Area		63.48	
2. Block Name		Churagang			5. Compiling date		24/4/2022	
3. No of plots		36			6. Species group		Schima	
col1	col2	col3	col4	col5	col6	col7	col8	col9
		(3 decimals)	(3 decimals)	(3 decimals)	(0 decimals)	(2 decimals)	(2 decimals)	(2 decimals)
dbh class (cm)	class basal area (m2)	class volume (m3)	plot size (ha)	expansion factor	tally	nrha (stems/ha)	basha (m2/ha)	volha (m3/ha)
10-19	0.017	0.089	0.05	0.556	0	0.00	0.00	0.00
20-29	0.047	0.319	0.05	0.556	0	0.00	0.00	0.00
30-39	0.093	0.750	0.05	0.556	1	0.56	0.05	0.42
40-49	0.156	1.425	0.05	0.556	1	0.56	0.09	0.79
50-59	0.233	2.381	0.05	0.556	0	0.00	0.00	0.00
60-69	0.327	3.653	0.05	0.556	0	0.00	0.00	0.00
70-79	0.436	5.273	0.05	0.556	0	0.00	0.00	0.00
80-89	0.561	7.270	0.05	0.556	0	0.00	0.00	0.00
90-99	0.701	9.671	0.05	0.556	0	0.00	0.00	0.00
100+	0.858	12.503	0.05	0.556	0	0.00	0.00	0.00

T-Trees (Continued)

1. CF Name		Gadhen Drongyuel CF			4. Block Area		63.48	
2. Block Name		Churagang			5. Compiling date		24/4/2022	
3. No of plots		36			6. Species group		Michelia	
col1	col2	col3	col4	col5	col6	col7	col8	col9
		(3 decimals)	(3 decimals)	(3 decimals)	(0 decimals)	(2 decimals)	(2 decimals)	(2 decimals)
dbh class (cm)	class basal area (m2)	class volume (m3)	plot size (ha)	expansion factor	tally	nrha (stems/ha)	basha (m2/ha)	volha (m3/ha)
10-19	0.017	0.086	0.05	0.556	0	0.00	0.00	0.00
20-29	0.047	0.297	0.05	0.556	0	0.00	0.00	0.00
30-39	0.093	0.678	0.05	0.556	4	2.22	0.21	1.51
40-49	0.156	1.259	0.05	0.556	3	1.67	0.26	2.10
50-59	0.233	2.065	0.05	0.556	3	1.67	0.39	3.44
60-69	0.327	3.121	0.05	0.556	2	1.11	0.36	3.47
70-79	0.436	4.447	0.05	0.556	3	1.67	0.73	7.41
80-89	0.561	6.061	0.05	0.556	1	0.56	0.31	3.37
90-99	0.701	7.983	0.05	0.556	0	0.00	0.00	0.00
100+	0.858	10.227	0.05	0.556	0	0.00	0.00	0.00

T-Trees (Continued)

1. CF Name		Gadhen Drongyuel CF			4. Block Area		63.48	
2. Block Name		Churangang			5. Compiling date		24/4/2022	
3. No of plots		36			6. Species group		Betula	
col1	col2	col3	col4	col5	col6	col7	col8	col9
		(3 decimals)	(3 decimals)	(3 decimals)	(0 decimals)	(2 decimals)	(2 decimals)	(2 decimals)
dbh class (cm)	class basal area (m2)	class volume (m3)	plot size (ha)	expansion factor	tally	nrha (stems/ha)	basha (m2/ha)	volha (m3/ha)
10-19	0.017	0.096	0.05	0.556	0	0.00	0.00	0.00
20-29	0.047	0.335	0.05	0.556	0	0.00	0.00	0.00
30-39	0.093	0.773	0.05	0.556	1	0.56	0.05	0.43
40-49	0.156	1.449	0.05	0.556	4	2.22	0.35	3.22
50-59	0.233	2.396	0.05	0.556	4	2.22	0.52	5.32
60-69	0.327	3.643	0.05	0.556	11	6.11	2.00	22.26
70-79	0.436	5.218	0.05	0.556	0	0.00	0.00	0.00
80-89	0.561	7.145	0.05	0.556	3	1.67	0.94	11.91
90-99	0.701	9.448	0.05	0.556	2	1.11	0.78	10.50
100-109	0.858	12.150	0.05	0.556	1	0.56	0.48	6.75
110+	1.030	15.271	0.05	0.556	1	0.56	0.57	8.48

T-Trees (Continued)

OPERATIONAL INVENTORY: COMPILATION SHEET (T-Trees)								
1. CF Name		Gadhen Drongyuel CF			4. Block Area		63.48	
2. Block Name		Churagang			5. Compiling date		24/4/2022	
3. No of plots		36			6. Species group		Other sp	
col1	col2	col3	col4	col5	col6	col7	col8	col9
		(3 decimals)	(3 decimals)	(3 decimals)	(0 decimals)	(2 decimals)	(2 decimals)	(2 decimals)
dbh class (cm)	class basal area (m2)	class volume (m3)	plot size (ha)	expansion factor	tally	nrha (stems/ha)	basha (m2/ha)	volha (m3/ha)
10-19	0.017	0.081	0.05	0.556	1	0.56	0.01	0.05
20-29	0.047	0.279	0.05	0.556	25	13.89	0.65	3.88
30-39	0.093	0.640	0.05	0.556	32	17.78	1.65	11.37
40-49	0.156	1.191	0.05	0.556	26	14.44	2.25	17.20
50-59	0.233	1.961	0.05	0.556	22	12.22	2.85	23.96
60-69	0.327	2.970	0.05	0.556	10	5.56	1.82	16.50
70-79	0.436	4.239	0.05	0.556	3	1.67	0.73	7.06
80-89	0.561	5.788	0.05	0.556	8	4.44	2.49	25.72
90-99	0.701	7.633	0.05	0.556	4	2.22	1.56	16.96
100-109	0.858	9.793	0.05	0.556	1	0.56	0.48	5.44
110+	1.03	12.282	0.05	0.556	2	1.11	1.14	13.65

Stand and Stock Table for T-Trees

1. Name of CF	Gadhen Drongyuel CF													
2. Species Group	Broadleaf													
3. No of Plots	36													
4. Block Name	Churagang													
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	%
total conifer														
Acer				0.56	1.11		1.67		1.11				4.44	4.28%
Betula			1	2	2	6		2	1.11	0.56	0.56		15.00	14.44%
Others	1	14	18	14	12	6	2	4	2.22	0.56	1.11		74.44	71.66%
Schima			1	1									1.11	1.07%
Michelia			2	2	2	1	2	1					8.89	8.56%
Total broadleaf	1	14	21	19	17	13	5	7	4	1	2		104	100.00%
Total all species	1	14	21	19	17	13	5	7	4	1	2		104	100.00%
%	0.01	0.13	0.20	0.19	0.17	0.12	0.05	0.06	0.04	0.01	0.02		100.00%	

Basal Area of T-Trees

1. Name of CF	Gadhen Drongyuel CF													
2. Species Group	Broadleaf													
3. No of plots	36													
4. Name of Block	Churagang													
5. 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	%
Total conifer														
Acer				0.09	0.26		0.73		0.78				1.85	7.24%
Betula			0.05	0.35	0.52	2.00		0.94	0.78	0.48	0.57		5.68	22.22%
Others	0.01	0.65	1.65	2.25	2.85	1.82	0.73	2.49	1.56	0.48	1.14		15.63	61.17%
Michelia			0.21	0.26	0.39	0.36	0.73	0.31					2.26	8.83%
Schima			0.05	0.09									0.14	0.54%
Total broadleaf	0.01	0.65	1.96	3.03	4.01	4.18	2.18	3.74	3.12	0.95	1.72		25.56	100.00%
Total all species	0.01	0.65	1.96	3.03	4.01	4.18	2.18	3.74	3.12	0.95	1.72		25.56	100.00%
%	0.00	0.03	0.08	0.12	0.16	0.16	0.09	0.15	0.12	0.04	0.07		100.00%	

Stand and Stock Table, Volume for T-Trees

1. Name of CF		Gadhen Drongyuel CF												
2. Species Group		Broadleaf												
3. No of plots		36												
3. Name of Block		Churagang												
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	%
Total conifer														
Acer				0.66	2.04		6.01		6.70				15.41	6.20%
Betula			0.43	3.22	5.32	22.26		11.91	10.50	6.75	8.48		68.87	27.71%
Others	0.05	3.88	11.37	17.20	23.96	16.50	7.06	25.72	16.96	5.44	13.65		141.79	57.04%
Michelia			1.51	2.10	3.44	3.47	7.41	3.37					21.29	8.57%
Schima			0.42	0.79									1.21	0.49%
Total broadleaf	0.05	3.88	13.72	23.97	34.77	42.22	20.48	41.00	34.16	12.19	22.13		248.57	100.00%
Total all species	0.05	3.88	13.72	23.97	34.77	42.22	20.48	41.00	34.16	12.19	22.13		248.57	100.00%
%	0.00	0.02	0.06	0.10	0.14	0.17	0.08	0.16	0.14	0.05	0.09		100.00%	

Annexure 5: Operational Inventory, (compilation sheets for N and T trees in Tshorim Block)

N-Trees

1. CF Name	Gadhen Drongyuel CF	4. Block Area	85.54
2. Block Name	Tshorim	5. Compiling date	24/4/2022
3. No of plots	35	6. Species group	Quercus sp

col1	col2	col3	col4	col5	col6	col7	col8	col9
		(3 decimals)	(3 decimals)	(3 decimals)	(0 decimals)	(2 decimals)	(2 decimals)	(2 decimals)
dbh class (cm)	class basal area (m2)	class volume (m3)	plot size (ha)	expansion factor	tally	nrha (stems/ha)	basha (m2/ha)	volha (m3/ha)
10-19	0.017	0.093	0.05	0.571	0	0.00	0.00	0.00
20-29	0.047	0.345	0.05	0.571	0	0.00	0.00	0.00
30-39	0.093	0.828	0.05	0.571	12	6.86	0.64	5.67
40-49	0.156	1.598	0.05	0.571	3	1.71	0.27	2.74
50-59	0.233	2.705	0.05	0.571	3	1.71	0.40	4.64
60-69	0.327	4.196	0.05	0.571	5	2.86	0.93	11.99
70-79	0.436	6.112	0.05	0.571	5	2.86	1.25	17.46
80-89	0.561	8.495	0.05	0.571	0	0.00	0.00	0.00
90-99	0.701	11.383	0.05	0.571	1	0.57	0.40	6.50
100+	0.858	14.814	0.05	0.571	1	0.571	0.490	8.465

N-Trees (Continued)

1. CF Name		Gadhen Drongyuel CF			4. Block Area		85.54	
2. Block Name		Tshorim			5. Compiling date		24/4/2022	
3. No of plots		35			6. Species group		Rhododendron	
col1	col2	col3	col4	col5	col6	col7	col8	col9
		(3 decimals)	(3 decimals)	(3 decimals)	(0 decimals)	(2 decimals)	(2 decimals)	(2 decimals)
dbh class (cm)	class basal area (m2)	class volume (m3)	plot size (ha)	expansion factor	tally	nrha (stems/ha)	basha (m2/ha)	volha (m3/ha)
10-19	0.017	0.075	0.05	0.571	0	0.00	0.00	0.00
20-29	0.047	0.225	0.05	0.571	0	0.00	0.00	0.00
30-39	0.093	0.579	0.05	0.571	4	2.29	0.21	1.32
40-49	0.156	1.072	0.05	0.571	0	0.00	0.00	0.00
50-59	0.233	1.755	0.05	0.571	0	0.00	0.00	0.00
60-69	0.327	2.646	0.05	0.571	0	0.00	0.00	0.00
70-79	0.436	3.763	0.05	0.571	0	0.00	0.00	0.00
80-89	0.561	5.120	0.05	0.571	0	0.00	0.00	0.00
90-99	0.701	6.731	0.05	0.571	0	0.00	0.00	0.00

N-Trees (Continued)

1. CF Name		Gadhen Drongyuel CF				4. Block Area		85.54	
2. Block Name		Tshorim				5. Compiling date		24/4/2022	
3. No of plots		35				6. Species group		Others sp	
col1	col2	col3	col4	col5	col6	col7	col8	col9	
		(3 decimals)	(3 decimals)	(3 decimals)	(0 decimals)	(2 decimals)	(2 decimals)	(2 decimals)	
dbh class (cm)	class basal area (m2)	class volume (m3)	plot size (ha)	expansion factor	tally	nrha (stems/ha)	basha (m2/ha)	volha (m3/ha)	
10-19	0.017	0.081	0.05	0.571	68	38.86	0.66	3.15	
20-29	0.047	0.279	0.05	0.571	37	21.14	0.99	5.90	
30-39	0.093	0.640	0.05	0.571	22	12.57	1.17	8.04	
40-49	0.156	1.191	0.05	0.571	20	11.43	1.78	13.61	
50-59	0.233	1.961	0.05	0.571	11	6.29	1.46	12.32	
60-69	0.327	2.970	0.05	0.571	4	2.29	0.75	6.79	
70-79	0.436	4.239	0.05	0.571	2	1.14	0.50	4.84	
80-89	0.561	5.788	0.05	0.571	1	0.57	0.32	3.31	
90-99	0.701	7.633	0.05	0.571	0	0.00	0.00	0.00	

Stand and Stock Table, N-Trees

1. Name of CF	Gadhen Drongyuel CF												
2. Species Group	Broadleaf												
3. No of Plots	35												
4. Block Name	Tshorim												
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 %
Total conifer													
Others	38.86	21.14	12.57	11.43	6.29	2.29	1.14	0.57					94.29 82.91%
Oak			6.86	1.71	1.71	2.86	2.86		0.57	0.57			17.14 15.08%
Rodrodendron			2.29										2.29 2.01%
Total broadleaf	39	21	22	13	8	5	4	1	1	1			114 100.00%
Total all species	39	21	22	13	8	5	4	1	1	1			114 100.00%
%	0.34	0.19	0.19	0.12	0.07	0.05	0.04	0.01	0.01	0.01			100.00%

Basal Area of N-Trees

1. Name of CF		Gadhen Drongyuel CF												
2. Species Group		Broadleaf												
3. No of plots		35												
3. Name of Block		Tshorim												
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	%
Total conifer														
Others	0.66	0.99	1.17	1.78	1.46	0.75	0.50	0.32					7.64	62.47%
Oak			0.64	0.27	0.40	0.93	1.25		0.40	0.49			4.38	35.79%
Rodrodendron			0.21										0.21	1.74%
Total broadleaf	0.66	0.99	2.02	2.05	1.86	1.68	1.74	0.32	0.40	0.49			12.23	100.00%
Total all species	0.66	0.99	2.02	2.05	1.86	1.68	1.74	0.32	0.40	0.49			12.23	100.00%
%	0.05	0.08	0.17	0.17	0.15	0.14	0.14	0.03	0.03	0.04			100.00%	

Volume of N-Trees

1. Name of CF	Gadhen Drongyuel CF													
2. Species Group	Broadleaf													
3. No of plots	35													
3. Name of Block	Tshorim													
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	%
Total conifer														
Others	3.15	5.90	8.04	13.61	12.32	6.79	4.84	3.31					57.96	49.64%
Oak			5.67	2.74	4.64	11.99	17.46		6.50	8.47			57.47	49.22%
Rodrodendron			1.32										1.32	1.13%
Cinnamomum														
Total broadleaf	3.15	5.90	15.04	16.35	16.96	18.77	22.31	3.31	6.50	8.47			116.75	100.00%
Total all species	3.15	5.90	15.04	16.35	16.96	18.77	22.31	3.31	6.50	8.47			116.75	100.00%
%	0.03	0.05	0.13	0.14	0.15	0.16	0.19	0.03	0.06	0.07			100.00%	

T-Trees

1. CF Name	Gadhen Drongyuel CF		4. Block Area	85.54
2. Block Name	Tshorim		5. Compiling date	24/4/2022
3. No of plots	35		6. Species group	Michelia

<i>col1</i>	<i>col2</i>	<i>col3</i>	<i>col4</i>	<i>col5</i>	<i>col6</i>	<i>col7</i>	<i>col8</i>	<i>col9</i>
		(3 decimals)	(3 decimals)	(3 decimals)	(0 decimals)	(2 decimals)	(2 decimals)	(2 decimals)
dbh class (cm)	class basal area (m2)	class volume (m3)	plot size (ha)	expansion factor	tally	nrha (stems/ha)	basha (m2/ha)	volha (m3/ha)
10-19	0.017	0.086	0.05	0.571	0	0.00	0.00	0.00
20-29	0.047	0.297	0.05	0.571	0	0.00	0.00	0.00
30-39	0.093	0.678	0.05	0.571	1	0.57	0.05	0.39
40-49	0.156	1.259	0.05	0.571	0	0.00	0.00	0.00
50-59	0.233	2.065	0.05	0.571	0	0.00	0.00	0.00
60-69	0.327	3.121	0.05	0.571	0	0.00	0.00	0.00
70-79	0.436	4.447	0.05	0.571	3	1.71	0.75	7.62
80-89	0.561	6.061	0.05	0.571	0	0.00	0.00	0.00
90-99	0.701	7.983	0.05	0.571	1	0.57	0.40	4.56
100+	0.858	10.227	0.05	0.571	1	0.57	0.49	5.84

T-Trees (Continued)

1. CF Name		Gadhen Drongyuel CF			4. Block Area		85.54	
2. Block Name		Tshorim			5. Compiling date		24/4/2022	
3. No of plots		35			6. Species group		Betula	
col1	col2	col3	col4	col5	col6	col7	col8	col9
		(3 decimals)	(3 decimals)	(3 decimals)	(0 decimals)	(2 decimals)	(2 decimals)	(2 decimals)
dbh class (cm)	class basal area (m2)	class volume (m3)	Plot size (ha)	expansion factor	tally	nrha (stems/ha)	basha (m2/ha)	volha (m3/ha)
10-19	0.017	0.096	0.05	0.571	0	0.00	0.00	0.00
20-29	0.047	0.335	0.05	0.571	1	0.57	0.03	0.19
30-39	0.093	0.773	0.05	0.571	0	0.00	0.00	0.00
40-49	0.156	1.449	0.05	0.571	0	0.00	0.00	0.00
50-59	0.233	2.396	0.05	0.571	2	1.14	0.27	2.74
60-69	0.327	3.643	0.05	0.571	0	0.00	0.00	0.00
70-79	0.436	5.218	0.05	0.571	3	1.71	0.75	8.95
80-89	0.561	7.145	0.05	0.571	3	1.71	0.96	12.25
90-99	0.701	9.448	0.05	0.571	0	0.00	0.00	0.00
100+	0.858	12.150	0.05	0.571	1	0.57	0.49	6.94

T-Trees (Continued)

1. CF Name		Gadhen Drongyuel CF				4. Block Area		85.54	
2. Block Name		Tshorim				5. Compiling date		24/4/2022	
3. No of plots		35				6. Species group		Others sp	
col1	col2	col3	col4	col5	col6	col7	col8	col9	
		(3 decimals)	(3 decimals)	(3 decimals)	(0 decimals)	(2 decimals)	(2 decimals)	(2 decimals)	
dbh class (cm)	class basal area (m2)	class volume (m3)	plot size (ha)	expansion factor	tally	nrha (stems/ha)	basha (m2/ha)	volha (m3/ha)	
10-19	0.017	0.081	0.05	0.571	0	0.00	0.00	0.00	
20-29	0.047	0.279	0.05	0.571	8	4.57	0.21	1.28	
30-39	0.093	0.640	0.05	0.571	20	11.43	1.06	7.31	
40-49	0.156	1.191	0.05	0.571	17	9.71	1.52	11.57	
50-59	0.233	1.961	0.05	0.571	44	25.14	5.86	49.29	
60-69	0.327	2.970	0.05	0.571	26	14.86	4.86	44.12	
70-79	0.436	4.239	0.05	0.571	13	7.43	3.24	31.49	
80-89	0.561	5.788	0.05	0.571	18	10.29	5.77	59.53	
90-99	0.701	7.633	0.05	0.571	2	1.14	0.80	8.72	
100+	0.858	9.793	0.05	0.571	15	8.57	7.35	83.94	
160-169	2.125	12.282	0.05	0.571	0	0.00	0.00	0.00	

Stand and Stock Table, T-Trees

1. Name of CF	Gadhen Drongyuel CF													
2. Species Group	Broadleaf													
3. No of Plots	35													
4. Block Name	Tshorim													
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	%
total conifer														
Betula		0.57			1.14		1.71	1.71		0.57			5.71	5.59%
Michelia			0.57				1.71		0.57	0.57			3.43	3.35%
Others		4.57	11.43	9.71	25.14	14.86	7.43	10.29	1.14	8.57			93.14	91.06%
Total broadleaf		5	12	10	26	15	11	12	2	10			102	100.00%
Total all species		5	12	10	26	15	11	12	2	10			102	100.00%
%		0.05	0.12	0.09	0.26	0.15	0.11	0.12	0.02	0.09			100.00%	

Basal Area of T-Trees

1. Name of CF	Gadhen Drongyuel CF														
2. Species Group	Broadleaf														
3. No of plots	35														
3. Name of Block	Tshorim														
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	%	
Total conifer															
Betula		0.03			0.27		0.75	0.96		0.49			2.49	7.15%	
Michelia			0.05				0.75		0.40	0.49			1.69	4.85%	
Others		0.21	1.06	1.52	5.86	4.86	3.24	5.77	0.80	7.35			30.67	88.00%	
Total broadleaf		0.24	1.12	1.52	6.12	4.86	4.73	6.73	1.20	8.33			34.86	100.00%	
Total all species		0.24	1.12	1.52	6.12	4.86	4.73	6.73	1.20	8.33			34.86	100.00%	
%		0.01	0.03	0.04	0.18	0.14	0.14	0.19	0.03	0.24			100.00%		

Volume of T-Trees

1. Name of CF		Gadhen Drongyuel CF												
2. Species Group		Broadleaf												
3. No of plots		35												
3. Name of Block		Tshorim												
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	%
total conifer														
Betula		0.19			2.74		8.95	12.25		6.94			31.07	8.96%
Michelia			0.39				7.62		4.56	5.84			18.42	5.31%
Others		1.28	7.31	11.57	49.29	44.12	31.49	59.53	8.72	83.94			297.24	85.73%
Schima														
total broadleaf		1.47	7.70	11.57	52.03	44.12	48.05	71.78	13.29	96.72			346.72	100.00%
total all species		1.47	7.70	11.57	52.03	44.12	48.05	71.78	13.29	96.72			346.72	100.00%
%		0.00	0.02	0.03	0.15	0.13	0.14	0.21	0.04	0.28			100.00%	

Annexure 6: Application for revision of Gadhen Drongyuel CF plan

(3) သုခါရုပ္ပါဒ်၏ နိဗ္ဗာန်ရပ်မှန် ရှိသည့်အားဖြင့်၊

ਪ੍ਰ. ੨. ਭਾ. ੧. ਪੰ. ੩੩੩

[illegible]

၁၆၈. ခြံ့ဗိုလ်က. ၇၅၅ ခြံ့ဗိုလ်က. ၁၆၈. ခြံ့ဗိုလ်က.

၁၅၇၂ ခုနှစ် ဇူလိုင်လ ၁၅ ရက်နေ့

NO_2 , N_2O , H_2O , CO_2

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उत्तर प्रदेश विधानसभा १९६० विधानसभा, १९६०, १९६०, १९६०

उद्योगों में नए लोगों को शामिल करने के लिए प्रयास करें।

နံဂု.ကုဒါ. သန္တဒါဂြိ. ဒသျ. ဂြိဂါ ခုံဂု. ဣ. သူဝ. သွံဒ. ဓဇျ. ဂုဂြ.

કુ.કુ.વ. માર્ગેનું મે. ૩૧ નું પૂર્વે જી. સી. પં. નં.

१३७. ३३ ५३७. १३७. १३७. १३७.

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List of Community Forest Management Group Members Sign.

[illegible]

Sl.No	Name	Village	ID-Card NO	Guny	Tham
①	Bidha	Gangkhu	11003000077	Thu-4-09	55
2)	Gangri	Kumba	11003000082	Thu-4-04	14
3)	Rinchen Dema	Kumba	11003000092	Thu-4-08	44
4)	Gshomo	Kumba	11003000066	Thu-4-08 (Ka)	44
5)	Kado Drukpa	Serjale	10402000034	Thu-4-00	81
6)	Damcho Khangmo	Debje	11003000016	Thu-4-02	75
7)	Phub Dorji	Kaka Shing	11003000025	Thu-4-02	59
8)	Gshering Khamo	Sim Shung	11003000003	Thu-4-01 (Ka)	57
9)	Bidha	Sim Shung	11003000011	Thu-4-01	57
10)	Pema Dema	Juna	11003000050	Thu-4-04	83
11)	Damcho Khangmo	Sachey	10402000337	Thu-4-28	79
12)	Damcho	Omchen	11003000043	Thu-4-05	84
13)	Nima Dema	Jangv	11003000059	Thu-4-07	12
14)	Zangmo	Jangv	10402000265	Thu-4-50	76
15)	Sangay	Jangv	11003000060	Thu-4-08 45	117
16)	Dolma	Jugna	11003000060	Thu-4-08 25	154
17)	Gshering Khamo	Anatoka	10402000046	Thu-4-72	82
18)	Gshering Pemo	Gashidingkha	11003000092	Thu-4-50	50
19)	KeZang Dema	Sim Shung	11003000002	Thu-4-08 44	161
20)	Damcho Gshering	Kumba	11003000085	Thu-4-08 24	18
21)	Khangchuk Pem	Gashidingkha	110030000101	Thu-4-11	
22)	Sangay Rinchen	Kumba	11003000066	Thu-4-08 (Ka)	44
23)	Kaka	Kumba	11003000067	Thu-4-08 (Ka)	111
24)	Gshering Zangmo	Gashidingkha	11003000097	Thu-4-08	172
25)	Gshering Gyem	Debje			