

# COMMUNITY FOREST MANAGEMENT PLAN

## BEYZAM COMMUNITY FOREST (1<sup>ST</sup> REVISION)

---

LANGTHEL GEWOG, TRONGSA DZONGKHAG



JIGME SINGYE WANGCHUCK NATIONAL PARK  
TSHANGKHA

**Plan Period: 2023 –2033**





དཔལ་ལྷན་འབྲུག་གཞུང་།  
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ROYAL GOVERNMENT OF BHUTAN  
 MINISTRY OF ENERGY & NATURAL RESOURCES  
 DEPARTMENT OF FORESTS & PARK SERVICES  
 FOREST RESOURCES PLANNING AND MANAGEMENT DIVISION



No. DoFPS/FRPMD/FRPIS/CF\_1(b)/2022-2023/ 1211

June 19, 2023

## NOTE SHEET

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

Following community forests (Annexure 1) upon completion of its 10-year management plan period have been revised and submitted for review and approval from the department. The community forest management plans (CFMPs) have been developed by respective field offices (detailed table 1) in collaboration with Community Forest Management Groups.

SL.No	Name of CF	Gewog	Office	Area(ha)	CFMG	AAC (M3)	Plan-Period
1	Baysam CF	Langthel	JSWNP	22.15	11	24.53	2023-2033
2	Jangbi Nyamrup CF	Langthel	JSWNP	73.98	23	81.95	2023-2034

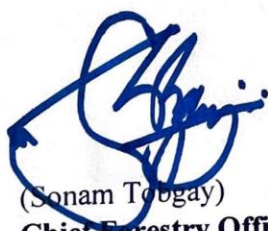
CFMPs adhere to guidelines and requirements set under Forest and Nature Conservation Code of Best Management Practices of Bhutan, Volume III Sustainable Forest Management and Forest and Nature Conservation Rules and Regulation, 2017 (FNCRR, 2017).

The revised CFMPs reflect the priorities and needs of the CFMG while also considering environmental and social safeguards. Stakeholder engagement ensured transparency and collaboration with a commitment to accountability, transparency, and long-term success.

The revised CFMPs include vision, objectives, strategies, proposed activities and framed by laws. It also includes detailed information on forest inventories, biodiversity conservation measures, resource utilization plans, benefit-sharing mechanisms, and community capacity building strategies.

Technical assessment and review conducted by Forest Resources Planning and Implementation Section, FRPMD, DoFPS. The revised CFMP's emphasize community participation, to promote conservation, sustainable resource utilization, community development, and the integration of traditional knowledge with modern scientific practices.

Therefore, the CFO and the Director jointly approved the revised Community Forest Management Plans (CFMP) after thorough review and discussion. They acknowledged its importance in fostering sustainable forest management practices, preserving biodiversity, and ensuring the well-being of the local community.

  
 (Sonam Tobgay)  
 Chief Forestry Officer

  
 (Director)

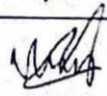

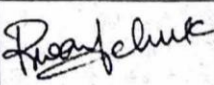

Department of Forest and Park Services





**Approval Sheet:**

Name of Community Forest	Beyzam Community Forest
Village	Beyzam
Chiwog	Dangdung
Gewog	Langthel
Dzongkhag	Trongsa
Production area	20.28 Ha (50.11)
Protection area	1.87 Ha (4.62 acres)
Total Community Forest Area	22.15Ha (54.73acres)
Total CFMG Member (No. of HH)	11 HH

**Prepared and submitted for approval**

	Community Forest Management Group	Forestry Representative (CFMP facilitator)	Gewog Administration	Social Forestry Section	JSW National Park
Signature					
Name	Nidup Dorji	Choki Dorji	Rinzin Wangchuk	Pema Thinley	Tashi Tobgyel
Title	Chairperson	Park Ranger	Gup	Head	Chief Forestry Officer

**REVIEWED AND RECOMMENDED FOR APPROVAL**

Signature		
Name	Tsheltrim Dorji	Sonam Tobgyel
Title	Focal Officer	Chief Forestry Officer
Division	Forest Resource Planning and Management Division	Forest Resource Planning and Management Division

APPROVED BY:


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

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## **Acronyms**

AAC- Annual Allowable Cut  
AHL- Annual Harvesting Limit  
CF – Community Forests  
CFMG – Community Forest Management Group  
CFMP – Community Forest Management Plan  
CFO- Chief Forestry Officer  
Cft- Cubic feet  
Col- Column  
DoFPS- Department of Forests and Park Services  
FNCR- Forest and Nature Conservation Rule  
GC road- Gewog Connectivity Road  
H- High  
Ha-Hectare  
HH- Household  
JSWNP-Jigme Singye Wangchuck National Park  
L- Low  
M- Medium  
M-Meter  
M3-Cubic meter  
Nos. – Number  
LPRO- Langthel Park Range Office  
NWFP – Non-Wood Forest Products  
PRO- Park Range Office  
Qty- Quantity  
RGoB- Royal Government of Bhutan  
ToR- Terms of References  
SFED- Social Forestry & Extension Division

## Executive Summary

The name of the Community Forest is just kept as of their village name i.e. is Beyzam Community Forest. It is about 3 km away from the Gewog office and the village is access with the farm road. Langthel geog is about 60 km away from Trongsa Dzongkhag. The community forest lies within an elevation range of 1100 meter to 1350 meter from sea level.

The established CF area is being utilized by the community of Beyzam in the past years for every forest resource for their house hold utilization and most of the matured trees have been harvested. And also the community forest area is on risk as the road to Dratshang passes through the established CF area. The community forest is easily accessible to the CFMG as well, as the farm road to Shelling passes through the middle of the community forest.

The whole CF area is covered with Chirpine (*Pinus roxburghii*) forest with the under growth of *Indigofera dosua*, *Engelhartia spicata*, *Rhus species* and *Phylanthus amblica*. The area is kept as one block as the whole block contains uniform Chirpine forest and similar land topography of the entire CF area. *Phylanthus amblica* has potential for marketing as it is abundantly present in the CF area. The total area of the community forest is 22.15 Ha with net production area of 20.28 Ha and has the mean basal area of 8.78m<sup>2</sup>/ha which represent the forest cover is moderate. The average timber volume of the CF is 152.20 m<sup>3</sup>/Ha and the Annual Available Cut (AAC) of the CF is 25.78m<sup>3</sup>. Except Dangchung, the annul demand of all the forest products exceeds the AAC and are insufficient for CFMG which the deficient will be met from SRF.

The Beyzam village consists of 11 households and all the households are involved in CF management group as they have the knowledge about the importance of community forest. The community of Beyzam mainly depends on subsistence agriculture farming, livestock and forest product for their domestic purposes. They do market the agriculture products like Oranges and few vegetables. The establishment of the CF in the community was the first social group formation in the village so far and, never the less the community also very much interested to establish CF and work in group. The community forest is also quite potential for income generation with access to farm road which passes through the middle of entire CF area and as they were well informed about the sustainability of the forest with establishment of the community forest.



## **PART I: MANAGEMENT PLAN**

### **1. Introduction**

The Beyzam community forest is established by 11 households of the community of Beyzam in the area of 22.15 Ha, increased by 6.67 Ha during the review as per the revised Community Forest Manuel 2018. The Beyzam community forest is just located in the south west of their hamlet about 200-300 meters away from the nearest house hold to the CF of the Beyzam village. The CF area has gentle slope with the aspect of south.

It is certain that CF will have lots of biotic pressures for its resources with the farm road passing through CF area. The forest has good regeneration and needs for the plantation in few and sporadic barren areas. The CFMG has also decided to carry out the bamboo plantation alongside the farm road for further diversify its resources. With the extended area towards the west during this review, the CF is bordered by Chaturpho in the West, Bashachhu in the East, Bebgang in the South and Drara in the North. The CF is located in the vicinity of the village where they can easily monitor the area in terms of illegal activities. Beyzam community forest is situated at the altitude ranging between 1100 to 1350 meters above the sea level.

The CF area has been used traditionally by people of Beyzam & Shelling villages in the past. The boundary of the community forest has been thoroughly discussed with the nearby villages to avoid conflict in the future.

Therefore, the community forest of Beyzam has been reviewed with the interest of the community and they have come into resolution to continue management realizing the scarcity of the forest resources in the future. This management plan is going to serve as of agreement of management of the forest, development of forest and sustainable utilization of the forest resources, and to preserve resources for the future generation.

## **2. Review of past plan over 10 years**

### **2.1. The activity carried out by the CFMG**

Besides support and recommendations provided yearly by the Range office during the annual monitoring, the CFMG of Beyzam CF failed to implemented any management activities in the CF as per the management plan except few meetings. This was due to the low literacy and poor management of the committee members and non-cooperative by the members with executive committee members. However, with the implementation of new management plan and with new Chairman and executive members, they are hoping to implement the activities as per the new management plan.

## 2.2. Timber supplied from CF area

Year	Type of timber	Quantity (numbers/cft)	Remarks
2015	Drashing	19 nos.	For rural use
	Flag pole	128 nos.	
2016,2017,2018	Nil		
2019	Drashing	10 nos.	
	Cham	34 nos	
2020	Nil		
2021	Drashing	2	
	Cham	10 nos	
2022	nil		

## 2.3 Financial Status

Year	Detail of revenue	Amount	Remarks
2015	1. Royalty on timber	6430.00	
	2. Permit fee	30.00	
2016,2017,2018	Nil	-	
2019	Royalty on timber	1690.00	
	Permit fee	40	
2020	Nil	-	
2021	Royalty on timber	410	
	Permit fee	20	
2022	Nil	-	
<b>Total amount (Nu.)</b>		<b>8,620.00</b>	

## 2.4 Constraint and way forward.

The first management plan of Beyzam CF expires without implementing any activities prescribed in the management plan besides supplying some timbers to the members. Though the Range Office during the monitoring and evaluation constantly reminded the CFMG on the issue, the low literacy rate of the Executive Committee members, lack of co-operation from the CFMG members are some of the factors that contributed to nonperformance of the CF.

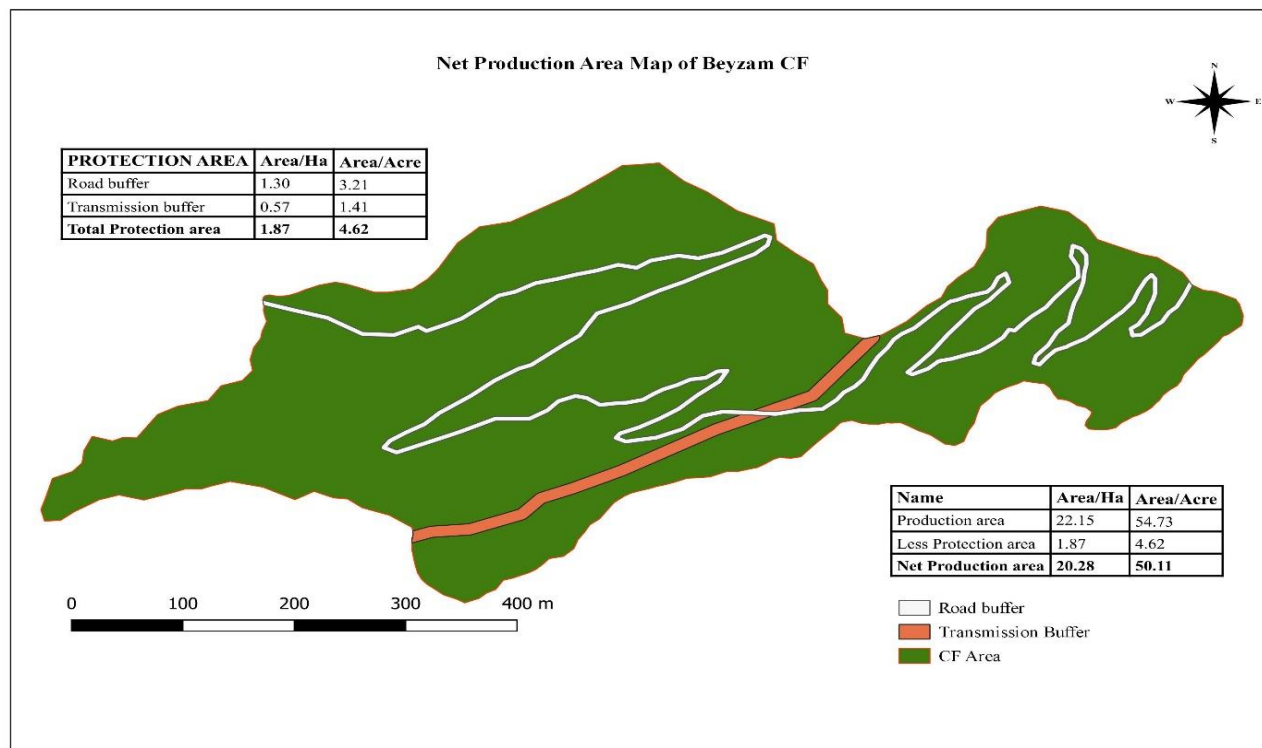
The Beyzam CFMG members during the review meeting agreed to implement all the activities as per the new management plan annually without fail. In order to build the capacity of CFMG, time to time training and refresher courses on record keeping and CF management from the relevant agencies are needed with funding support from the RGoB since CF is not in a position to support such activities due to very low revenue generation.

### 3. Traditional Rights and Responsibilities

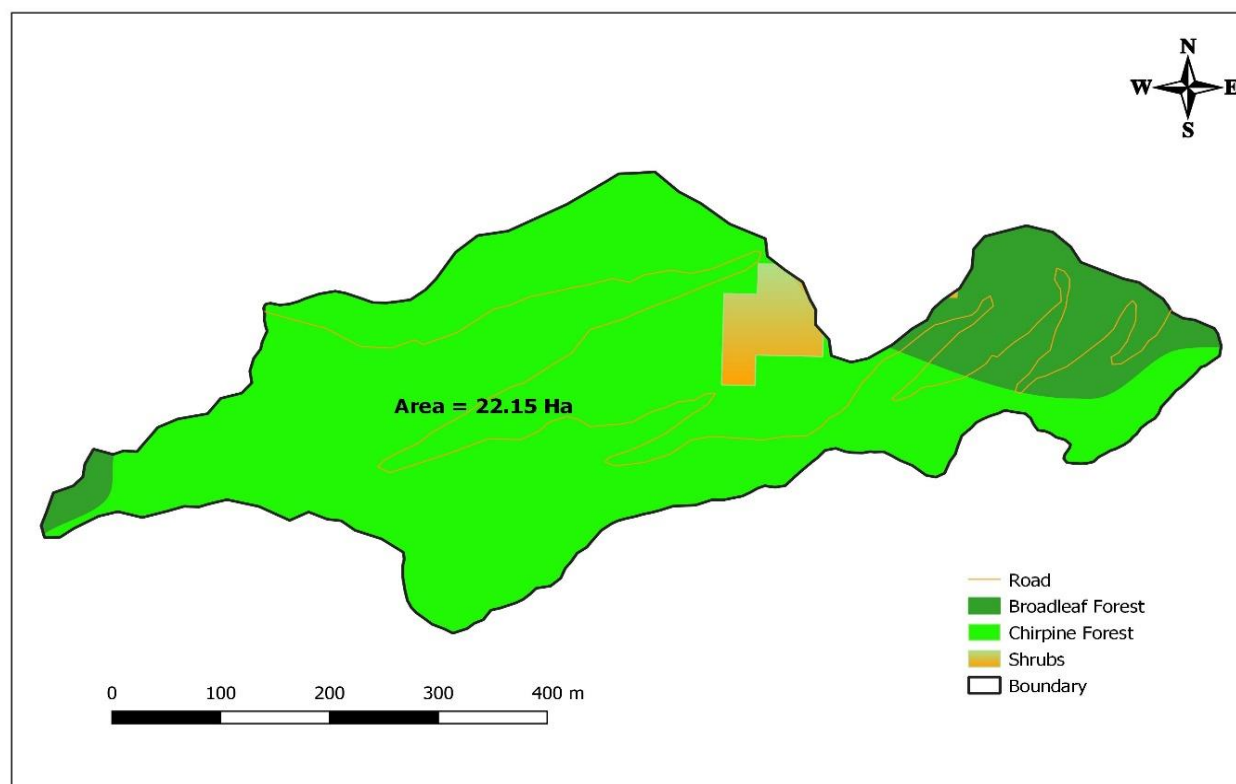
Products/ Services	Rights	Responsibilities	Traditional Management system
Timber	The forest is access to Beyzam and Shelling only but for (Mebche) purposes access to Beyzam, Shelling and Ngormey	The RGoB control and issue permits system	No traditioanl management system, product issues with due permits from through DoF and Park Services
Fire wood	The fuel-wood collection was access to Beyzam village only.	Before 50 years freely access, later RGoB controled with establishing JSWNP.	No traditioanl management system
NWFPs	Only CFMG has the right over NWFP collection after the establishment of CF	Controlled by CFMG	No traditional management system and only permits issue system through Park Services
Grazing	The cattle of Beyzam, Shelling & Ngormey village was allowed to graze in the area.	There is not much responsible taken over the area as there is limited user.	No traditional management system as such.

### 4. Community Forestry Map

## 4.1 Net Production Area Map

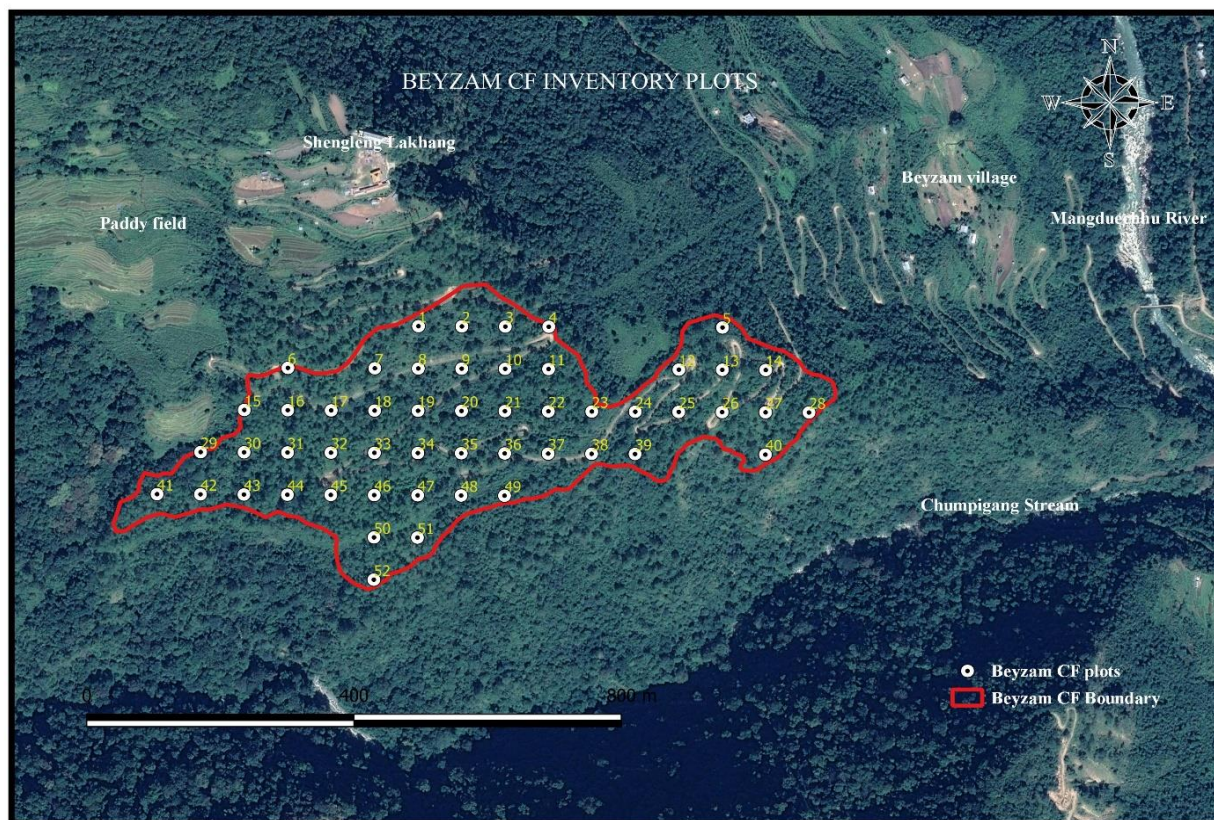


## 4.2 Land use map of Beyzam CF





### 4.3 Inventory Map



### 5. Community Forest Boundaries

Boundaries	Permanent features/description of boundary
West	Chuturpho
East	Bashachu
South	Bebgang
North	Drara

### 6. Community Forest Planning Process

The major steps involved during the planning process that had contributed to CF management plan are:

Sl. No.	Activities	Year & Date	Collaborators
1	Discussion with CFMG members regarding work plan for CF revision	2/11/2022	LPRO, JSWNP
2	CF boundary survey	3-4/11/2022	LPRO,

*Beyzam Community Forest Management Plan, Trongsa Dzongkhag*

			JSWNP
3	Review & participatory resource assessment training	5-7/11/2022	LPRO, JSWNP
4	Preliminary resources inventory survey	8-11/11/2022	LPRO, JSWNP
5	Quantitative resource Assessment survey	12-16/11/2022	LPRO, JSWNP
6	Preparation of CFMG By-Laws	17-19/11/2022	LPRO, JSWNP
7	Management plan write up	12/2022–01/ 2023	RO, LPRO
8	Final draft management plan submission for approval	02/ 2023	RO, LPRO

## 7. Social Information

Particulars	Description
Name of the village:	Beyzam
Ethnic groups with CFMG:	Khengkha is the most popular dialect spoken in Beyzam.
Basic amenities/ Infrastructures:	The safe drinking water, Farm road, Electricity supply, Solar fencing, Bridge, Communication facilities (Mobile service), and Monestries are some of the insfractures available in their Communities.
Total Household (HH) number of CFMG:	11 HH
Population of CFMG:	Total of 71 population currently are residing in the community.
% Male and % female:	Male=52.12% and Female=47.88% (Male=37 and Female=34)
Main source of income	Agriculture.
Cattle population of the CFMG:	The total cattle population in the CFMG is 34. .
Main crops:	Paddy and Maize \
Cropping pattern:	The Community commonly practise mixed cropping.

## 8. Forest Information for whole forest

### 7.1. History of the Forest

The Beyzam community forest falls purely under the conifer zone and there is no much of other tree species. There is very few tree species like *Quercus griffithii* and *Engelhardia spicata*. The timber for constructing Shelling Lhakhang has been harvested from the established CF area and the area seems quite degraded, nevertheless there is enough Drashing to meet the annual demand of the CFMG. The natural regeneration is quite good but in some portion of the CF area plantation can be carried out. The proposed CF area was being used by Shelling and Beyzam only for the timber purposes. The growing stock in nature is quite good in general and for making the forest more productive there needs plantation of native and commercially viable species by the CFMG.

The CF area also contains NWFP like *Phyllanthus ambluca* which has enormous potential for marketing in future. There is no other NWFP which is potential for income generation for CFMG. The CF has also potential area for plantation of bamnboo species for income generation in future. Sandy red soil, black and loamy soil in some portion of the CF are main soil types of the CF. It also beholds the potentiality of growing other species of trees in the area. There is no much evidences of soil erosion in the area as there is not much of the clay soil present in the soil textural of the CF area.

There are evidences of preesence of wild animal such as Leopard, Bear, Barking Deer, Sambar and wild boar inside the CF. The area is not a regular grazing area of the domestic animals and as a result there is quite good existance of nature regeneration.

Therefore the community forest doesn't requires much plantation as such but there is every way to improve and develop the forest into the productive forest.

### 7.2. Forest Condition (Average for whole Block)

Use the forest condition class box below to get the average condition for the CF							
Poor	<input type="checkbox"/>	Moderate	<input type="checkbox"/>	Good	<input checked="" type="checkbox"/>	Very Good	<input type="checkbox"/>
Does the main forest canopy consist of large, mature trees?				Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>
Mean basal area					8.78 m <sup>2</sup> /ha		
Total community forestry area					22.15 Ha		
NWFP use area (if relevant)					NA		
Numbers of Blocks in CF					1		

### 7.3. Fauna

Local Name	Common Name	Scientific/Zoological name
Zee	Leopard	<i>Panthera pardus</i>
Pra	Monkey	<i>Assamenses maccacu</i>
Shaw	Sambar deer	<i>Cervus unicolor</i>
Kasha	Barking Deer	<i>Muntiacus muntjak</i>
Phag	Wild boar	<i>Sus scrofa</i>
Raksha	Golden Langur	<i>Trachypithecus geei</i>
Wam	Bear	<i>Ursus thibetanus</i>

### 7.4. List of Forest Product Collected from the Forest

List of products and services	Who collect from forest		Please mark (x) if used or collects by outsider (out of CFMG) and mention which village
	Male (M)	Female (F)	
Timber harvesting	M	-	-
Firewood collection	M	F	-
Fencing post	M	F	-
Flag poles	M	F	-
Amla	M	F	

## 8. Block wise Forest Information

Particulars	
Name of Blcok	Single Block
Total Area (Ha)	22
Basal Area (m <sup>2</sup> /Ha)	17.56

### 8.1. Forest type

Forest Types	Tick (✓)	Remarks, if any
Subtropical forest		
Chir pine forest	✓	



*Beyzam Community Forest Management Plan, Trongsa Dzongkhag*

Warmbroad leaved forest		
Blue pine forest		
Coolbroadleaved forest		
Mixed conifer forest		
Fir forest		
Other		

## 8.2. Main Species

Local Name	Botanical names
1. Tshagsheng	<i>Pinus roxburghii</i>
2. Pisiseng	<i>Quercus griffithii</i>
3. Amala	<i>Phyllanthus amblica</i>
4. Janseng	<i>Scheuchzeria palustris</i>
5. Chokasheng	<i>Rhus chinensis</i>

## 8.3. Forest Condition

Forest Condition- Age					
Mature <input checked="" type="checkbox"/>		Pole stage <input type="checkbox"/>		Shrub land <input type="checkbox"/>	
Main canopy of mature trees		Main canopy of pole-stage trees		Main canopy of shrubs, young trees or regeneration	No continuous canopy. Isolated trees only
Forest Condition- Canopy density (main canopy)					
Dense		Open	<input checked="" type="checkbox"/>	Very open	<input type="checkbox"/>
Canopy density > 70%		Canopy density < 70%		No real canopy. Isolated trees only	
Forest Condition- Regeneration					
Abundant		Scattered/few	<input checked="" type="checkbox"/>	None	<input type="checkbox"/>

*Beyzam Community Forest Management Plan, Trongsa Dzongkhag*

Regeneration easy to find in most places	Regeneration only in some places and hard to find	No regeneration
Write the names of the 3 main tree species in the regeneration		
1) <u>Chirpine</u> ( <i>Pinus roxburghii</i> )	2) <u>Rhus</u> ( <i>Rhus chinensis</i> )	3) <u>Amla</u> ( <i>Embllica officinalis</i> )
Regeneration: Seedlings > 30cm and < 1.3m height		
<b>Forest Condition – Approximate density of seed trees</b>		
High	<input type="checkbox"/>	Moderate
> 50 seed trees per ha	10 - 50 seed trees per ha	< 10 seed trees per ha
<b>Block Conduction- Summary</b> (Use the forest condition class box below to get the average condition for the block)		
Poor	<input type="checkbox"/>	Average
Good	<input checked="" type="checkbox"/>	Very Good
Does the main forest canopy consist of large, matured trees?		No

#### 8.4. Catchment Condition

Soil cover	Soil cover class
> 50% of the soils are covered by vegetation	High
25 - 50% of the soils are covered by vegetation	Moderate
< 25% of the soils are covered by vegetation	Low
Slope	
Slope (degrees)	Slope steepness class
<10°	Gentle
10° – 30°	Moderate
> 30°	Steep

### Catchment Condition – Summary

*Use the catchment condition class box below to get the average condition for the block*

Less critical <input type="checkbox"/>	Moderately critical <input checked="" type="checkbox"/>	Highly critical <input type="checkbox"/>
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### Catchment Condition Class Box

Slope category	Soil erosivity	Cover class	Condition class
Flat	Erosive	Moderate or high	Moderately critical
		Low	Highly critical
	Non erosive	Any	Less critical
Moderate	Erosive <input checked="" type="checkbox"/>	Moderate or high	Moderately critical
		Low	Highly critical
	Non erosive	Moderate or high	Less critical <input checked="" type="checkbox"/>
		Low	Moderately critical
Steep	Erosive	Moderate or high	Moderately critical
		Low	Highly critical
	Non erosive	Moderate or high	Moderately critical
		Low	Highly critical

### 8.5. Biotic Pressure indications

Fire	Common	Occasional	Absent <input checked="" type="checkbox"/>
Grazing	Heavy	Limited <input checked="" type="checkbox"/>	Absent
Fodder Collection (List main species used)	Common	Limited <input checked="" type="checkbox"/>	Absent
NWFP collection (list the main products including bamboo & cane)	Common	Limited <input checked="" type="checkbox"/>	Absent
Leaf litter collection	Common	Limited	Absent <input checked="" type="checkbox"/>
Encroachment	Common	occasional	Absent <input checked="" type="checkbox"/>
Pole harvesting	Common	Occasional <input checked="" type="checkbox"/>	Absent

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Fuel wood harvesting	Common	occasional <input checked="" type="checkbox"/>	Absent
Timber harvesting	Common	occasional <input checked="" type="checkbox"/>	Absent
Hunting	Common	occasional	Absent <input checked="" type="checkbox"/>
Others (describe)			

## 9. Forest Management

### 9.1. Overall, Forest Management Objectives

- ❖ *To improve existing forest condition through sustainable utilization of forest resources.*
- ❖ *To managed and conserve the forest resources in sustainable basis.*
- ❖ *To protect and manage the right over available resources.*
- ❖ *To generate Income for the Community Forest Management Group through sale of surplus forest products*

### 9.2. Block Management Objectives

Name of Block	Management Objectives
Whole area	<ul style="list-style-type: none"> <li>❖ Improve forest condition through collection of dead, diseased and malformed trees for use as fuel wood.</li> <li>❖ Promote desirable regeneration species for use as fuel wood and fencing post.</li> </ul>

### 9.3. Annual Harvesting Limit

#### 9.3.1. Stand Stock- Volume/Ha. Nos. of stems/Ha and AAC based on DBH Class (Conifer)

Suitability	Conifer (T -Trees)				Conifer (N-Trees)			
DBH Class	Nos. of trees/Ha	ACC- Nos. of trees	Vol/ha	AAC- M3	Nos. of trees/Ha	ACC- Nos. of trees	Vol/Ha	ACC- M3
10-19	16.00	3	0.87	0.15	2	0	0.11	0.02
20-29	23.00	4	5.47	0.92	1	0	0.18	0.03
30-39	18.00	3	10.77	1.82	2	0	0.94	0.16
40+	56	9	120.39	20.35	2	0	6.39	1.08



**9.3.2. Stand Stock- Volume/Ha. Nos. of stems/Ha and AAC based on DBH Class (Broadleaved)**

Suitability	Broadleaved (T -Trees)				Broadleaved (N-Trees)			
DBH Class	Nos. of trees/Ha	ACC-Nos. of trees	Vol/ha	AAC-M3	Nos. of trees/Ha	ACC-Nos. of trees	Vol/Ha	ACC-M3
10-19	2	0	0.18	0.03	27	5	2.13	0.36
20-29	3	1	0.99	0.17	1	0	0.22	0.04
30-39	1	0	0.53	0.09	2	0	1.06	0.18
40+	0	0	0.86	0.15	1	0	1.37	0.23

**9.3.3. Stand Stock- Volume/Ha. Nos. of stems/Ha and AAC based on Product type (Conifer)**

AAC/product	D/chung	Tsim	Cham	D/shing	Fencing post	Flag pole	Firewood
M3	0.15	0.92	1.82	20.35	0.02	0.03	1.24
CFT	5.30	32.49	64.27	784.81	0.71	1.06	43.80
No. of trees	3	4	3	9	0	0	0

**9.3.4. Stand Stock- Volume/Ha. Nos. of stems/Ha and AAC based on Product type (Broadleaved)**

AAC/product	D/chung	Tsim	Cham	D/shing	Fencing post	Flag pole	Firewood
M3	0.03	0.17	0.09	0.15	0.36	0.04	0.41
CFT	1.06	6.00	3.18	5.30	12.72	1.41	14.48
No. of trees	0	1	0	0	5	0	0

**9.3.5. Comparison of Annual Allowable Cut (AAC) and Annual Demand**

AAC/product	D/chung	Tsim	Cham	D/shing	Fencing post	Flag pole	Firewood
M3	0.18	1.09	1.91	20.50	0.38	0.07	1.65

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<b>CFT</b>	6.36	38.50	67.46	724.06	13.42	2.47	58.27
<b>No. of trees</b>	3	5	3	9	5	0	0
<b>Annual Demand/no. of trees</b>	<b>0</b>	<b>160</b>	<b>50</b>	<b>12</b>	<b>200</b>	<b>50</b>	<b>10</b>
<b>Difference</b>	<b>(+) 3</b>	<b>(-)155</b>	<b>(-) 47</b>	<b>(-) 3</b>	<b>(-)195</b>	<b>(-) 50</b>	<b>(-)10</b>

**9.3.6. Management option for each products**

<b>Deficit products</b>	<b>Management options</b>
Cham	<i>The deficit quantity of Tsim and Cham &amp; Drashing be met from SRF land. The available quantity of Dangchung size trees shall be used to supply only for other purposes other than new house construction and renovation</i>
Tsim	
Drashing	
Fencing post/poles	<i>The deficit quantity of fencing post, flag poles and firewood be met from SRF land or sublimented from Drashing</i>
Flag poles	
Firewood	

**10. Forest Product Demand Assessment**

The demand assessment and usage of products deriving from the forest area are recorded in the tables as indicated below.

<b>Forest produce</b>	<b>Annual estimated requirement</b>		<b>HH that require forest produce annually</b>		<b>Total requirement annually</b>		<b>Total requirement in 10 years</b>	
	<b>New construction</b>	<b>Renovation</b>	<b>New construction</b>	<b>Renovation</b>	<b>New construction</b>	<b>Renovation</b>	<b>New construction</b>	<b>Renovation</b>
Drashing	8	2	1	2	8	4	80	40
Cham	40	5	1	2	40	10	400	100
Tsim	80	40	1	2	80	80	800	800
<b>Other forest produce</b>								

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Firewood	1 tree	11 HH	10 trees	110 trees
Flagpole	5 trees	11 HH	50 trees	550 trees
Fencing post	20 Nos	11 HH	200 Nos.	2200 Nos.
NWFP (Amla)	3 Kgs.	11 HH	30 Kgs	330 Kg

### 11. Problem and opportunities (related to above information and analysis)

Problems	Opportunities	Management objectives	Activities
Shortage of Tsim size trees	Surplus trees of Cham size shall be converted for use as Tsim.	Improve Forest Condition and promote pole stage stand.	-Improve forest condition executing thinning and cleaning operation. -promote natural regeneration or replenish open area through plantation.
Acute shortage of Fencing post	Surplus trees of firewood and flag pole trees shall be converted for use as fencing post	Promotion of poles size trees through weeding and cleaning	-pruning and thinning operation will be applied

### 12. Forest Management Procedures

Objective	Activities	Priority (H, M, L)	Procedures	Responsibilities
1. To manage and improvement of the forest.	1.1 Creation of plantation in barren areas	H	-Plantation will be done in 1 acres each year by CFMG and plantation of bamboo along the farm road side will be carried out. -Site selection will be done during the CFMG meeting	Executive members & CFMG
	1.2 Cleaning and thinning	H	-The dead/drying and unwanted trees will be removed. -cleaning should be done in whole area to	Executive members & CFMG

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			promote regeneration.	
2. To utilize the forest resources sustainably and generate income.	2.1 Removal of dead and diseased trees	H	-The dead/drying timber will be allotted to the CFMG or will be marketed -blank area created will be filled up by the plantation	Executive members & CFMG
	2.2 Dead/drying timber will be sawn for selling	H	-Harvest of any forest product will be executed as per the harvesting limit.	Executive members, CFMG
	2.3. Only the surplus resources will be marketed.	H	-Executive members and the CFMG will decide in meeting for marketing of the forest produces	Executive members
3. Waste management in CF area.	-Awareness -Fixation of sign board -Conduct cleaning campaign - Disposal of waste to the designated place	H	-Executive members and CFMG will decide in the meeting for cleaning campaign and fixation of signboard	Executive members, CFMG

### 13. Silviculture Option and System

Utilization	Improvement	Protection	Silviculture system	Comments
Timber Harvesting	Select the matured trees after retention of seed trees & felling direction should be identified for minimal damages to regeneration.	Protect the illegal felling & marking should be executed by technical person.	Single tree selection system will be applied	The plantation of suitable tree species should be carried out in the selected site and the tree species which
Harvesting of Fire wood	Dead, diseased and malformed trees will be used	The quality trees species shall be retained for timber use.	Single tree selection system shall be applied	



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Extraction of Fencing post and flag poles	Extracted from thinning & cleaning operation.	Felled on thinning basis & retain quality species for promotion to timbers	Cleaning & thinning operation	benefits the CFMG.
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#### 14. Participatory Environment Assessment

*Participatory Environmental Assessment Chart*

			Potential Environmental Effects			Potential Socio-Economic Effects		
Activity proposed in CFMP	Soil	Water	Wild animals	Plants	Traditional forest use	Cultural and religious values	Local employment	Local benefits from forest
Plantation establishment	+++	+++	++	+	+++	0	++	++
Timber harvesting	---	---	---	--	---	---	++	++
Fuel wood harvesting	---	---	--	--	0	-	++	+++
Flag pole harvesting	---	---	---	--	---	---	++	++
Grazing control	+++	+++	++ +	+++	+++	+++	0	++
NWFP collection	0	0	--	0	0	--	++	++
Forest protection	+++	+++	++	+++	+++	+++	++	+++
Soil and water conservation	+++	+++	++	+++	+++	++	++	+++

Index:

+++ (Positive Effects); --- (Negative Effects); 0(Not Applicable)

#### 15. Procedures to address potential negative environment effects

Activity	Procedure
Timber, fuel wood	<ul style="list-style-type: none"> <li>❖ Prohibit marking of trees, where the slope gradient is high.</li> <li>❖ The firewood shall be collected from lops and tops.</li> <li>❖ No clear-felling system will be applied for harvesting timber and fuel wood.</li> </ul>

and Flag pole harvesting	<ul style="list-style-type: none"> <li>❖ Retained seed trees and should identified the felling direction.</li> <li>❖ Plantation should be done to replace the felled trees.</li> </ul>
Collection of NWFP	<ul style="list-style-type: none"> <li>❖ Harvesting of NWFP shall be on sustainable basis as per their prescribed guidelines.</li> <li>❖ The collection of NWFPs shall be given in need based.</li> </ul>
Grazing	<ul style="list-style-type: none"> <li>❖ The free grazing should be controlled in the regeneration and plantation areas.</li> </ul>








### 16. Climate Hazard Matrix

	Landslide	Flood	Drought	Forest Fire	Animal disease	Reduce Crop yield	Score
Landslide	×						<b>0</b>
Flood	Flood	×					<b>2</b>
Drought	Drought	Drought	×				<b>5</b>
Forest Fire	Forest fire	Flood	Drought	×			<b>1</b>
Animal disease	Animal disease	Animal disease	Drought	Animal disease	×		<b>3</b>
Reduce Crop yield	Reduce Crop yield	Reduce Crop yield	Drought	Reduce Crop yield	Reduce Crop yield		





















*Result: 1st= Drought (5); 2nd=Reduced crop yield (4); 3rd=Animal disease (3); 4th=Flood (2); 5th = Forest Fire (1); 6th=Land slide (0).*

*According to the analysis, the most climate hazard experiencing by Beyzam CFMG is Drought followed by reduced crop yield and land slide possess no risk or very less risk to the community comparing to other Climatic Agent.*

### 17. Forest Produce Prioritization Matrix

Product Types	Timber	Firewood	Fencing post	Flag poles	NWFP	Water	Score
							
	×						4

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		×					<b>3</b>
			×				<b>2</b>
				×			<b>1</b>
					×		<b>0</b>
						×	<b>5</b>

Result: 1st= Water (5); 2nd=Timber (4); 3rd=Fire wood (3); 4th=Fencing Post (2); 5th = Flag poles (1); 6th=NWFP collection (0).

As per the analysis, the CFMG member prioritized water the top most important forest product followed by timber species. The least important forest product for the community was observed to be NWFP collection.

### 18. Forest Product and Preference Ranking

Species name (Local and Botanical name) ↓	Uses →	Drashing	Cham	Fencing post	Firewood	Flag poles/Dangchung
Chirpine	P	xxx	xxx	x	xx	xx
	A	++	+++	+++	++	+++
Schima spp.	P	xx	0	xxx	xx	0
	A	0	0	++	++	0
Quercus spp.	P	0	0	xxx	xx	0
	A	0	0	++	++	0
Rhus spp.	P	0	0	xxx	x	0
	A	0	0	+++	++	0
Castronopsis spp.	P	0	0	0	0	0

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	A	0	0	++	+	0
	A	++	0	+	+	0

*Index: P= Preference, A=Availability*

*xxx-Highly preferred; xx-preferred; x-Least preferred; 0-not preferred*

*+++-Abundant; ++-Few; +- very little; 0-not available*

## 19. Waste Management in Community Forest

The Waste Prevention and Management Regulation, 2012 is a comprehensive regulation for the waste minimization and management of the country. Therefore, CFMG should have great concern pertaining to the waste management in the CF area for healthy environment. All CFMG members should have sense of responsibility for not littering wastes within the CF area.

The following are responsibilities of CFMG members:

- Initiate and conduct awareness on waste management by CFMC members to the Beyzam community Forest members in collaboration with PRO staff.
- Installation of waste management signage inside the CF area where it is necessary.
- Construction of proper waste pit and installation of waste bin along the farm road inside CF area by CFMG.
- Initiate and conduct a monthly cleaning campaign within the CF area and collected garbage should dispose at a designated site.
- Levy the fine and penalty regarding littering and disposal of garbage inside the CF area, prescribed in the By-laws under the section **offences and penalty**.

## 20. Monitoring Plan

### 20.1. Participatory Forest Resource Monitoring

Participatory Forest Resource Monitoring Plan				
Objective	Indicator	How it will be monitored	Responsibility	Comments
1.Sustainable utilization of timber	<ul style="list-style-type: none"> <li>- Observe the trend of timbers harvesting &amp; allotment</li> <li>- Field verifies timber harvesting physically.</li> </ul>	-Frequently monitor and evaluate the quantity of timber allotted.	Executive Committee members, CFMG & PRO	-

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2. To improve the forest conditions	<ul style="list-style-type: none"> <li>- Observe the status of regeneration growth.</li> <li>- Observe the trend of wild animal's presence.</li> </ul>	<ul style="list-style-type: none"> <li>- Periodical counting and measuring diameters of few trees in specified area</li> <li>- Collect baseline data before the operation of CF and in the mid of plan period.</li> </ul>	Executive members, CFMG & PRO	Social information will be collected for data analysis
3. To control illegal activity within CF	<ul style="list-style-type: none"> <li>- The frequency of illegal activities taken.</li> </ul>	<ul style="list-style-type: none"> <li>- Regular patrolling will be conducted.</li> <li>-The records of fine imposed.</li> </ul>	Executive members & CFMG	-
4. Collection and use of NWFPs	<ul style="list-style-type: none"> <li>-Identify NWFP collection areas</li> <li>-Field verify during collection season</li> <li>-Observe the trend of quantity collected annually</li> </ul>	<ul style="list-style-type: none"> <li>-Survey the potential growing site of NWFP</li> <li>-The park range staff will accompany CFMG during the collection season</li> <li>-Monitor and evaluate collection records maintained.</li> </ul>	ECM members and Park Range Office	The CF record keeping books will be used for validation

## 20.2. Participatory Social and Institutional Monitoring

Participatory Social and Institutional Monitoring Plan				
Objective	Indicator	How it will be monitored	Responsibility	Comments
Equitable benefit sharing	Proportion of income used for benefit of disadvantaged households.	<ul style="list-style-type: none"> <li>- Participatory wealth ranking exercise.</li> <li>- Maintain resource allocation record.</li> </ul>	Executive Committee Members	-
Enhance CFMG Governance	<ul style="list-style-type: none"> <li>- Nos. of women participated in decision making</li> <li>- Level of</li> </ul>	<ul style="list-style-type: none"> <li>-Proportion of female participation</li> <li>- Validate annual labor and meeting records maintained.</li> </ul>	Executive Committee Members	-



	CFMG members' participation in meeting and works.			
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### 20.3. Participatory Environmental Impact Monitoring

Participatory Environmental Impact Monitoring Plan				
Possible negative impact	Indicator	How it will be monitored	Responsibility	Comments
Damage to natural regeneration & biodiversity loss	<ul style="list-style-type: none"> <li>- Frequency and intensity of soil erosion.</li> <li>-No. of seedlings damage.</li> <li>- Trend of wild animals and birds' presence.</li> </ul>	<ul style="list-style-type: none"> <li>- Counting in a sampling plot</li> <li>- Verify the disaster incidences physically</li> <li>- Collect social data and validate in the field through sample survey.</li> </ul>	All CFMG members & PRO	Conduct PRA Exercises
Decrease in water discharge volume	<ul style="list-style-type: none"> <li>- Level of discharge volume during driest month.</li> <li>- Availability of water for drinking and irrigation</li> </ul>	<ul style="list-style-type: none"> <li>- Time to fill a bucket of known volume.</li> <li>- Collect social data from the CFMG members</li> </ul>	All CFMG members & PRO	-

### 20.4. Monitoring and Evaluation of CF

The CFMG shall be responsible for carrying out regular monitoring in the CF activities under the guidance of Park Range Office (PRO). The PRO will also provide technical assistance regarding CF record keeping, exploration of market opportunities and implementation of CF by-laws. The PRO shall submit the annual report to Department. The monitoring and Evaluation of CF shall be carried out as per the prescription in the Management Plan and as per technical guidelines in the forest management code. The CF management plan will be evaluated collaboratively by the Executive Committee Members, Park Range Office and the Park Management, JSWNP after completion of five years.

## 21. Annual Work Plan

Activity	Bhutanese Months											
	1	2	3	4	5	6	7	8	9	10	11	12
Meeting CFMG												
Demarcation of CF boundary												
Fireline construction												
Waste management												
Thinning and Cleaning												
Plantation												
Timber harvesting and fire wood												
Monitoring of CF area												

## 22. Seasonal Calendar for Harvesting and Collection of Forest Resources

Activity	Bhutanese month											
	1	2	3	4	5	6	7	8	9	10	11	12
Timber harvesting												
Firewood collection												
Fencing post												
Flag poles collection												
Agri tool implement												
Amla collection												

## **PART II. BY-LAWS**

### **23. CFMG Information**

The name of the Community Forest Management Group is called "**Beyzam Community Forest**". It is located above the Beyzam village under Langthel Gewog of Trongsa Dzongkhag. The CFMG consist of 11 households from Dangdung Chewog.

### **24. Membership Arrangement**

- ❖ The membership is defined by who owns definite Gung, Thram and native of the village.
- ❖ An individual of Beyzam communities only who duly registered their Gung and Thram and also who bear the expenditure for the development of CF activity spent shall be eligible to become the member of this CFMG after the formulation of these By-Laws.
- ❖ The people of Beyzam communities are eligible to become the member of CFMG.

#### **24.1. Procedures for joining as new CFMG Member**

Anybody can join as new CFMG member upon fulfilling the eligibility criteria for new membership as below:

- ❖ An applicant should have Census, Thram and Gung in the village.
- ❖ She/he should be the head of Household.
- ❖ The new members who are willing to join the CFMG after issuance of certificate shall be accepted upon payment of total days' work executed for CF activities by each members till the time of joining and have to pay the entry fee of the CF members.
- ❖ If a new member happens to join the CFMG due to fragmentation of household from existing CFMG members who meets the above criteria shall have to pay only membership fees.
- ❖ Any new members wishing to join the CFMG either through purchase of land or transfer of Census will be accepted as a new member only he/she wishes to bear the expenditure share contributed by the existing CFMG members till that time including memberships fees as prescribed in the By-laws under the section **Fees**.

#### **24.2. Procedures for leaving CFMG Member**

Any members of the CFMG are permitted to leave the group by submitting the resignation application to chairperson on the ground of inability or loss of interest. Any CFMG member who happens to leave CFMG due to some inconvenience such as resettlement (Zhesar) or discontinuation of the memberships due to extinction of hereditary lineage shall be allowed to withdraw from the member and shall be eligible for the benefits share of from the CF fund at that time period. However, if the CFMG members who wish to withdraw from membership at his/her own interest without any inconveniency shall not be eligible for any benefit share from the CFMG's fund unless decided by the Executive Committee Members.

### **24.3. Withdrawal of Executive Committee Members**

Any Executive Committee Members can leave the committee before completion of their tenure due to some unavoidable circumstances such as Sickness, Labour shortage in the household, Handicapped and if he/she is elected as the Local Government representative. The CFMG shall have right to terminate and re-elect the committee member if they fail to perform their duties as per their respective **ToR** (Terms of Reference). The resignation application should reach the chairperson before a month of his/her resignation from the post so that CFMG members can nominate for substitution.

### **25. Management Committee Formation**

The Beyzam Community Forest Management Group consists of four executive committee members who were elected based on literacy, capability and commitment towards the CF activities regardless of gender bias. They are Chairperson, Secretary, Treasurer and Resoop. The committee members are nominated for the duration of ten years including two Resoop on rotational basis in every two months from the certification of CF. The committee members were elected based on majority of voting by CFMG taking into consideration of personal attributes, experience, initiative and ability to read and write.

#### **25.1. The present CF Executive Committee Members:**

<b>Name</b>	<b>Designation</b>
Nidup Dorji	Chairperson
Sonam Dema	Secretary cum Treasurer
1 <sup>st</sup> = Leki & Mindumo (on rotational basis as per the name list in the member's list)	Resoop

### **26. Terms of Reference for CF Management Committee**

The CF Management Committee comprises of four Executive Committee Members shall have following rights and responsibilities with regards to the CF Management.

- ❖ Ensure equitable distribution of forest products from CF to all the CFMG members.
- ❖ Co-ordinate the CFMG general meeting and Executive Committee meetings.
- ❖ Lead role in planning, monitoring, implementing and evaluation of the CF.
- ❖ Issue permits for forest products and timely sanctioning after obtaining house construction approval from the Gewog Administration.
- ❖ Ensuring proper utilization of CF fund by depositing into the bank
- ❖ Resolving conflict and offence cases within CFMG.
- ❖ Carry out Ad-hoc forest patrolling
- ❖ Formulation of CF annual work plans.
- ❖ To seek technical support from the stakeholders when required.
- ❖ Maintenance of record for any kind of activities in the CF.

- ❖ Decision making body for enrolment of new membership and as well as for withdrawing of old member from the CFMG
- ❖ Submission of CF annual progress report.

## **27. ToR for Chairperson**

- ❖ Coordinate and preside the meetings of CFMG as and when required.
- ❖ Sanctioning and issuance of permit for harvesting of forest products to the members.
- ❖ Lead the Plan activities in consultation with Park Range Office.
- ❖ Enforce CFMG law after consulting with CF committee members.
- ❖ Endorsing the Cheque with the secretary and treasurer
- ❖ Resolve CF related conflict within CFMG members where ever possible.
- ❖ Plan annual CF development works based on CF Plan.
- ❖ Co-ordinate with other stakeholders for CF management support.
- ❖ Annual reporting (Monitor & review the plan activities).
- ❖ Accord approval for sale of excessive timber.
- ❖ Accompany any visitor visiting the Community Forest.
- ❖ Shoulder the responsibilities of Treasurer in their absence
- ❖ Accompany Resoops and PRO in marking the trees if felt necessary and genuine.

## **28. ToR for Secretary**

- ❖ Officiate Chairman in his/her absence
- ❖ Signatory to financial matters in absence of Chairman
- ❖ Responsible for all correspondence related to CF and issuance of permits.
- ❖ Keep all necessary records with regards to implementation of CF activities and allocation of forest produce to the CFMG.
- ❖ Responsible for preparing CF annual work plan, progress reports and submission to the PRO
- ❖ Assisting chairperson in planning and implementation of CF activities.
- ❖ Maintain minutes of CF meeting when conducted.
- ❖ Shoulder the responsibilities of Treasurer in his/her absence.

## **29. ToR for Treasurer**

- ❖ Keep record on collection of membership fees, permit fees, royalties and fines.
- ❖ Maintain all the financial related records and present it to the members during general meetings as well as when demanded by the CFMG.
- ❖ Responsible for withdrawing and depositing accumulated fund in CFMG's Account.
- ❖ Co-sign cheque with chairperson and secretary.
- ❖ Officiate Secretary in his/her absence.
- ❖ Assist Chairman in resolving CF related conflict amongst the CFMG
- ❖ Assist Chairman in enforcement of fines and penalties for illegal activities
- ❖ Issuance of money receipt.



### **30. ToR for Resoop**

- ❖ To patrol within CF area once in a month for illegal activities and submit the field reports to Executive committee.
- ❖ Marking of trees in consultation with PRO.
- ❖ Monitoring the presence of cattle in the plantation area and report the damages to the chairperson.

### **31. Roles and Responsibilities of the CFMG**

The CFMG shall exercise full control over the CF area in terms of protection and management of the Community Forest, and they will have following roles and responsibilities as below:

- ❖ Provide overall labour contribution for CF development as and when required.
- ❖ The CFMG group members shall have right to follow the principle of equity and justice.
- ❖ Protect CF from any kind of illegal activities through patrolling and reports to the Committee if any.
- ❖ Termination of any executive members and appointment of new committee member base on their performance.
- ❖ Check or evaluate any CF related recording keeping books if felt genuine and necessary.
- ❖ Auditing on CFMG account/financial transactions of the CF fund if required.
- ❖ Gender wise equal labour contribution to the CF activities.
- ❖ Participation in CFMG meeting.

### **32. Fees**

#### **32.1. Membership Fees**

The membership fee will be collected annually **Nu.100/-** per household from the CFMG. If a new member happens to join the CFMG due to fragmentation of household from existing CFMG members have to pay lump sum of **Nu. 500/-** as membership fee. Any new member joining the CFMG upon purchasing of land or transferring of census shall pay equal to existing absentees' fine rate for labour contribution made by CFMG in the CF including **Nu.1500/-** for membership fees.

#### **32.2. Royalty**

<b>Forest products and others</b>	<b>Within CFMG Members</b>	<b>Non- CFMG Members (Outsiders)</b>
Drashing	Nu.50/tree	As per existing market value fixed by the NRPC/NRDCL
Cham	Nu.35/tree	-do-
Tsim	Nu.10/tree	-do-

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Flagpole	Nu.10/F/pole	-do-
Fire Wood	Nu. 40/tree	As per existing market value fixed by the NRDCL
Fencing Post/pole	Nu.10/per piece	As per existing market value fixed by the NRDCL
NWFP	Free of royalty for self-consumption.	No outsider will be allowed to collect NWFP from CF. Any NWFP from CF will be sold by the group.

### 32.3. Offences and Penalties

Offences	Penalties	
	Within CFMG	Outsider (Non-CFMG)
Illegal extraction of timber/cham/tsim	As per FNCRR/Forest Act and existing market value fixed by the NRDCL	
Fire Wood and Flag Poles/ Fencing Post	As per FNCRR/Forest Act and existing market value fixed by the NRDCL	
NWFP (Amla)	-Nu.200/- Kg	Nu.200/- Kg
Grazing in plantation and damaging of plantation by cattle	Nu.1500 for grazing in plantation with Nu. 10/seedling for every seedling damaged., plantation will be carried out by CFMG	Nu.3000/for grazing in plantation area and Nu. 30/seedling for damaged seedling and plantation
Absentees for meeting/work	Nu. 800/- per day for work Nu.600/- per day for meeting	-
Late for meetings and work.	If late reporting to any activities after 15 minutes of the time informed will be liable to pay Nu. 2/minutes.	-
Misuse of allotted timber by CFMG	As per FNCRR	
Illegal littering and dumping of waste CFMG	As per waste management SOP of government.	
Misusing of CF fund, powers and not performing their duties as per the ToRs by the CF Management Committee members	Shall be liable to pay 50% interest of the total amount misused in addition to the principal to individual.	-
Illegal activities related to wildlife, birds, hunting/poaching and forest fire, etc within CF area	Shall be collected by the Park Range Office based on existing rules.	

## **Remarks**

- ❖ In addition to fines and penalties regarding illegal collection of any forest produce, the forest produce shall be seized and retain for CFMG welfare.

## **33. Managing CFMG Fund**

### **33.1. Source of CFMG Fund**

The possible sources of funds for the CFMG are:

- ❖ Collection of membership entry fees.
- ❖ Collection of Royalty fees for forest products.
- ❖ Sale of surplus forest products such as timbers and NWFP (Amla)
- ❖ Collection of fines and penalties and other compensations from CFMG members and outsiders.
- ❖ Contribution from CFMG members and outsiders.
- ❖ Interest returns from CF saving deposit.
- ❖ Donations from visitors and other stakeholders.

### **33.2. Management of CFMG Fund**

The CFMG fund that is generated from the above sources will continue to deposit in the Beyzam CF joint saving account only. The same account will be maintained under the joint signatory of chairman, Secretary and Treasurer All the cash that is accumulated shall be deposited within the time period of one month. The accumulated fund will be utilized for CF developmental activities

based on resolutions of the CF general meeting. However, an amount not exceeding upto Nu.2000/- shall have to be kept in cash with the treasurer for any emergency use. Any CFMG members shall have right to avail for loan from CF fund after accumulating Nu.100,000/- in the saving account. The members shall have right to take only Nu.5,000/- at an interest of 5% per month. The emergencies loan will be provided to all the members those who are in problems without interest but principle amount should be refunded in the set time period of three months.

### **33.3. Benefit Sharing Mechanism**

- ❖ Any kind of benefits (CF fund or Forest produce) shall have equal rights among the CFMG members.
- ❖ Preference of obtaining forest produce will be given to the members considering based on genuine case only.
- ❖ Any CFMG members leaving with genuine reason/no labour force shall be equally benefited that his/her contribution made till the time of leaving CFMG.
- ❖ If any member wants to leave the CFMG without unavoidable problems, He/she shall not be paid for any share of forest produce/ CF fund generated.

- ❖ If any members became disabled in course of implementing the management plan, he/she shall be equally benefited to his/her contribution made till the time of leaving CFMG.
- ❖ All the forest produce from the CF shall require requisite application to the Chairperson, who will then deliberate on the matter with the CFMG Executive Committee Members and issue the permits based on the availability and need.
- ❖ The permits of timber for house construction and other purpose shall be issued as per the Annual Work Plan.
- ❖ In case of emergencies such as uncertain disaster and during the time of sickness/dead case the permit for timbers and others shall be issued without restricting to the time period.
- ❖ CFMG consensually agreed to issue free permit for firewood and flag poles for death cases as required, however this shall not apply if collection have to done from SRF.
- ❖ If the CFMG members need to avail timber for new house construction purpose, he/she will have to obtain a **Construction Approval** from the Gewog Administration before applying for timbers. The timbers for new house construction will be allotted every after 25 year and for renovation every after 12 years. The permit for collection of timbers shall be valid for the period of two years.
- ❖ The sale of only surplus timber after meeting all the demand of the CFMG shall decide by Executive Committee members in consultation with the CFMG. CFMG members are allowed to collect NWFPs at free of royalty for their own consumption.
- ❖ If any individual (CFMG members including Resoops or outsider) reported on any illegal activities in CF area shall be entitled for 25% reward/benefit of the total fine imposed to an offender and 75% shall deposit into CF bank account.

## **34. Meetings**

### **34.1. General Meeting**

The general meeting will be conducted for proper functioning of the CFMG activities and it will be held twice in a year on 3rd and 12th month of Bhutanese calendar. But the chairman can call for meeting when it felt necessary. The first meeting will discuss on implementation of management plan for development of CF activities simultaneously collecting the membership fees. The progress report on activities will be reported during the second meeting to the CFMG members. The second meeting shall review and monitor of the first meeting. It is to set follow up action after identification of the strength and weaknesses of the CFMG. Any issues and problems during the implementation of CF activities will be discuss in this meeting. The majority of 60% of the total CFMG members attends the meeting shall be considered the decisions taken during the meeting.

### **34.2. Executive Committee Meeting**

The committee meeting will meet 4 times in a year to discuss the plan activities for discussion in the general meeting. These meetings will take on 1st, 2nd, 4th and 11th month of the Bhutanese calendar. They will also discuss about the problems and issues raised by the CFMG members during the general meetings. They will review the CF plan activities and reporting the CF

development activities to the CFMG members during the general meeting. They can also maintain the minutes of meeting and report the resolution of the meeting to the CFMG members during the general meeting.

### **35. Roles and Responsibilities of another Stakeholder**

The important stakeholders of the Community Forest Management are:

- ❖ Gewog Administration.
- ❖ Park Range Office
- ❖ Park Management, JSWNP.

#### **35.1 Gewog Administration**

- ❖ Support during the implementation of Management Plan.
- ❖ Solving the disputes.
- ❖ Support during the budget proposal from project and Royal Government of Bhutan.

#### **35.2 Park Range Office**

- ❖ Assist the CFMG in formulation of Annual Community Forest Plan
- ❖ Support during the budget proposal from project and Royal Government of Bhutan.
- ❖ Provide support in progress reporting
- ❖ Monitoring nursery/plantation activities.
- ❖ CFMG training on need base.
- ❖ Support during marketing of Forestry Products.
- ❖ Provide know – how and technical backstopping in process of implementing the Management Plan.

#### **35.3 Park Management**

- ❖ Support during marketing of Forestry Products.
- ❖ Seek budget from project and Royal Government of Bhutan
- ❖ Review of Community Forest Activities.
- ❖ Review of Annual Plan.
- ❖ Inspect, monitor and review the records.
- ❖ Evaluate the Progress of Community Forest.

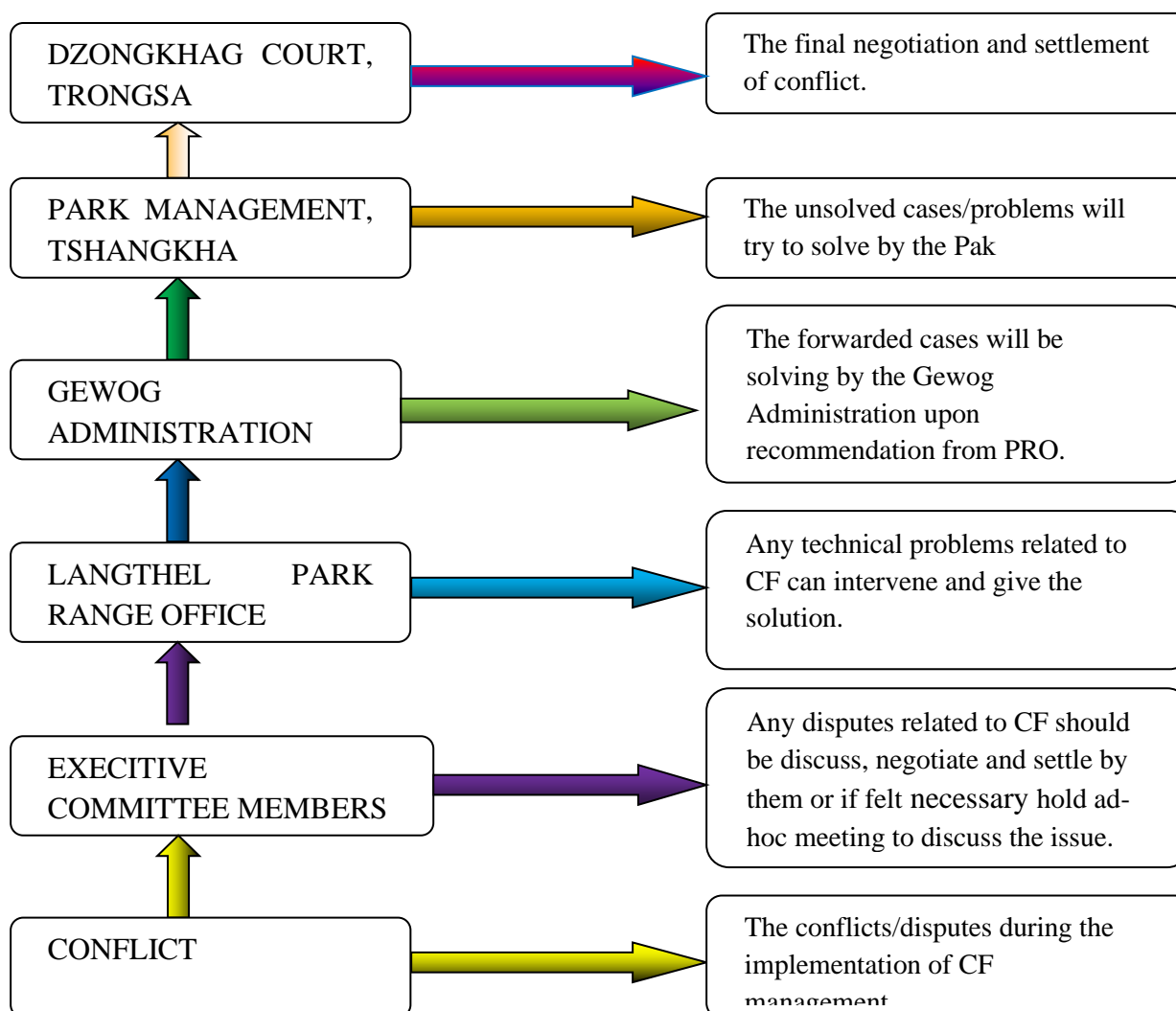
### **36. Conflict Management**

The some of the potential conflicts/disputes that might arise in future with regards to CF management are:

- ❖ Non-contribution of labour in the CF developmental activities.
- ❖ Equity and benefit sharing of resources from CF.
- ❖ Boundary disputes with CF and private land owners.
- ❖ Non-attendance during CF meetings.



### 36.1 Procedure to Resolve Conflicts



### 37. Amendments of CFM Plan/CFMG By-Laws

- ❖ Any amendments must be endorsed by the executive committee members during the CFMG general meeting through majority consensus decision and submit it to the Park Management for approval through the Park Range Office.
- ❖ The Executive Committee should report the amended Section of the By-Laws or the clauses which need to be added based on the experiences gained during the implementation of CF management plan to the Park Management through Park Range Office.
- ❖ The problems and inconveniences of CF Management Plan during the implementation should be clearly identified. The Park Management will review the amendment proposal and accord approval for implementation.

### **38. Power of the Department**

As per the Forest and Nature Conservation Rules and Regulations (FNCRR) 2017, **Chapter III**, Forest Management Planning and Plan Implementation under the Section, **Community Forest**, notwithstanding the power of the CFMG as prescribed in **Section 75-101**, the Department is fully empowered in Cancellation of Community Forest Certificate in line with the **Section 88, 102-104**. The Department shall also suspend and reinstate of CF certificate upon the recommendation of the CFO as per the **FNCRR 2017 under Section 105-107** in the following event:

- 1) The CFMG is unable to manage the Community Forest according to its management plan or otherwise fails to meet their responsibilities; and
- 2) The CFMG has engaged in any activities in contravention of the provision of the Act, Rules, By-laws or the management plan.

### **Annex.1. Community Forest Management Group**

<b>Sl.No.</b>	<b>Name</b>	<b>Gender</b>	<b>CID No.</b>	<b>House No.</b>	<b>Thram No.</b>
1	Leki	Male	11703000814	Tsa-3-196	427
2	Mindumo	Female	11703003050	Tsa-3-398	40
3	Pema Jomo	Female	11703000833	Tsa-3-221	435
4	Leptang	Female	11703000872	Tsa-3-209	372
5	Leki Dema	Female	11703000801	Tsa-3-193	428
6	Thukten	Male	11703000779	Tsa-3-190	438
7	Kinzangmo	Female	11703000851	Tsa-3 Nil/06	567
8	Nak Tshomo	Female	11703000808	Tsa-3-86	431
9	Ugyen Choden	Female	11703002294	Tsa-3-214	992
10	Ugyen	Male	11703002816	Tsa-3-169	566
11	Pema	Male	11703000820	Tsa-3-249	372

**Annex:2 Forest Resource Assessment-Tally Sheet**

		DBH class(cm)										
Trees species Scientific Name	Suit-ability	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100+	Seedling <10
<i>Pinus roxburghii</i>	T	41	61	46	87	29	19	5	4	1	0	64
	N	5	2	4	1	2	0	0	0	1	0	
<i>Quercus spp.</i>	T	0	0	0	0	0	0	0	0	0	0	3
	N	0	2	4	1	0	0	0	0	0	0	
<i>Castrotopsis hyxtris</i>	T	4	2	1	0	0	0	0	0	0	0	0
	N	4	3	0	0	0	0	0	0	0	0	
<i>Schima wallichii</i>	T	1	2	1	0	1	0	0	0	0	0	1
	N	10	9	1	0	0	0	0	0	0	0	6
<i>Others</i>	T	1	5	0	0	0	0	0	0	0	0	3
	N	57	13	0	0	1	0	0	0	0	0	4

**Annex: 3 Forest seedling Assessment**

Species Seedling - Scientific name	Seedling<10cm
<i>Pinus roxburghii</i>	65
<i>Schima wallichii</i>	16
<i>Brideli spp.</i>	2
<i>Rhus spp.</i>	99
<i>Phyllanthus emblica</i>	72
<i>Spium insigne</i>	11
<i>Mallotus philippinensis</i>	10
<i>Albizia spp.</i>	3
<i>Quercus lanata</i>	3
<i>Celtis spp.</i>	7
Other broadleaf	51


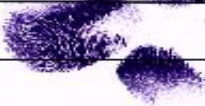



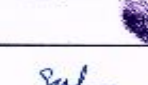





(3) ક્રમિક પંક્તિ, જો, નદી, નદી, સુધી, અંતિમ

2021

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**Annex: 5. CFMG Member list**

**NAME LIST OF COMMUNITY MEMBERS, BEYZAM COMMUNITY FOREST**

SL No	Name	CID No.	Thram No.	Gung No.	Signature
1	Leki	11703000814	427	Tsa-3-196	
2	Mindumo	11703003050	40	Tsa-3-398	
3	Pema Jomo	11703000833	435	Tsa-3-221	
4	Leptang	11703000872	372	Tsa-3-209	
5	Leki Dema	11703000801	428	Tsa-3-193	
6	Thukten	11703000779	438	Tsa-3-190	
7	Kinzangmo	11703000851	567	Tsa-3-NE/06	
8	Nak Tshomo	11703000808	431	Tsa-3-86	
9	Ugyen Choden	11703002294	992	Tsa-3-214	
10	Ugyen	11703002816	566	Tsa-3-169	
11	Pema	11703000820	372	Tsa-3-249	

**Annex: 6. Stand and stock Table for Beyzam CF =Average volume for (T) timber tree.**

STAND & STOCK TABLE SHEET 3 - VOLUME														
1. Name of CF		Beyzam CF												
2. Species Group														
3. No of plots		52												
3. Name of Block		Single block												
4. estimated parameter		: Average Volume per Ha (m3/ha) (Copy col 9 from compilation sheet) (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	%
Chirpine (T)	0.87	5.47	10.77	41.99	24.98	26.53	10.56	12.14	4.19				137.49	98.10%
total conifer	0.87	5.47	10.77	41.99	24.98	26.53	10.56	12.14	4.19				137.49	98.10%
Schima(T)	0.03	0.25	0.29		0.92								1.49	1.06%
Castanopsis(T)	0.12	0.22	0.26										0.60	0.43%
Other Broadleaf(T)	0.03	0.55											0.58	0.41%
total broadleaf	0.18	1.02	0.55		0.92								2.67	1.90%
total all species	1.05	6.49	11.32	41.99	25.90	26.53	10.56	12.14	4.19				140.16	100.00%
%	0.01	0.05	0.08	0.30	0.18	0.19	0.08	0.09	0.03				100.00%	



**Annex: 7. Stand and stock for Beyzam CF=Average no of Trees/ha. For (T) timber trees.**

STAND & STOCK TABLE SHEET 1 - NUMBER OF TREES														
1. Name of CF      Beyzam CF														
2. Species Group														
3. No of Plots                      52                      (Note: Copy Col 7 from Compilation sheet)														
4. Block Name      Single block														
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	%
Chirpine T	15.77	23.46	17.69	33.46	11.15	7.31	1.92	1.54	0.38				112.68	94.23%
total conifer	15.77	23.46	17.69	33.46	11.15	7.31	1.92	1.54	0.38				112.68	94.23%
Schima(T)	0.38	0.77	0.38		0.38								1.91	1.60%
Castanopsis(T)	1.54	0.77	0.38										2.69	2.25%
Other Broadleaf(T)	0.38	1.92											2.30	1.92%
total broadleaf	2.30	3.46	0.76		0.38								6.90	5.77%
total all species	18.07	26.92	18.45	33.46	11.53	7.31	1.92	1.54	0.38				119.58	100.00%
%	0.15	0.23	0.15	0.28	0.10	0.06	0.02	0.01	0.00				100.00%	

**Annex: 8. Stand and stock for Beyzam CF=Average Basal Area/ha. For (T) timber trees.**

TABLE SHEET 2 - BASAL AREA																	
1. Name of CF		Beyzam CF															
2. Species Group																	
3. No of plots		52															
3. Name of Block		Single block															
4. estimated parameter		: Average Basal Area per Ha (m2/ha)							(Copy col 8 from Compilation sheet)							(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	%			
Chirpine (T)	0.27	1.10	1.65	5.22	2.60	2.39	0.84	0.86	0.27				15.20	97.67%			
total conifer	0.27	1.10	1.65	5.22	2.60	2.39	0.84	0.86	0.27				15.20	97.67%			
Schima(T)	0.01	0.04	0.04		0.09								0.17	1.08%			
Castanopsit(T)	0.03	0.04	0.04										0.10	0.63%			
Other Broadleaf(T)	0.01	0.09											0.10	0.62%			
total broadleaf	0.04	0.16	0.07		0.09								0.36	2.33%			
total all species	0.31	1.26	1.72	5.22	2.69	2.39	0.84	0.86	0.27				15.56	100.00%			
%	0.02	0.08	0.11	0.34	0.17	0.15	0.05	0.06	0.02				100.00%				

**Annex: 9. Stand and stock for Beyzam CF=Average Basal Area/ha. For (NT) timber tree.**

STAND & STOCK TABLE SHEET 2 - BASAL AREA														
1. Name of CF	Beyzam													
2. Species Group														
3. No of plots	52													
3. Name of Block														
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	%
													0.00	0.00%
														0.00%
Chirpine (N)	0.03	0.04	0.14	0.06	0.18	0.00	0.00	0.00	0.27				0.72	35.99%
total conifer	0.03	0.04	0.14	0.06	0.18	0.00	0.00	0.00	0.27	0.00	0.00	0.00	0.72	35.99%
Oak(N)	0	0.04	0.14	0.06	0	0	0	0	0	0.000			0.24	11.96%
Schima(N)	0.07	0.16	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.000			0.26	13.19%
Castanopsis(N)	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000			0.08	4.02%
Other broadleaf(N)	0.37	0.24	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0			0.70	34.85%
total broadleaf	0.46	0.49	0.18	0.06	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.28	64.01%
total all species	0.49	0.53	0.32	0.12	0.27	0.00	0.00	0.00	0.27	0.00	0.00	0.00	2.00	100.00%
%	0.25	0.26	0.16	0.06	0.13	0.00	0.00	0.00	0.13	0.00	0.00	0.00	100.00%	

**Annex: 10. Stand and stock for Beyzam CF=Average Volume/ha. For (NT) trees.**

STAND & STOCK TABLE SHEET 3 - VOLUME															
1. Name of CF		Beyzam CF		0											
2. Species Group				0											
3. No of plots		52		0											
3. Name of Block															
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	%	
Chirpine(N)	0.11	0.18	0.94	0.48	1.72	0.000	0.000	0.000	4.19	0.000			7.62	47.98%	
total conifer	0.11	0.18	0.94	0.48	1.72	0.00	0.00	0.00	4.19	0.00	0.00	0.00	7.62	47.98%	
Oak(N)	0	0.26	1.22	0.58	0	0	0	0	0				2.07	13.01%	
Schima(N)	0.34	1.10	0.29	0.00	0.00	0.00	0.00	0.00	0.00				1.73	10.90%	
Castanopsis(N)	0.12	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00				0.45	2.84%	
Other broadleaf (N)	1.71	1.44	0.00	0.00	0.86	0.00	0.00	0.00	0.00				4.01	25.27%	
total broadleaf	2.17	3.13	1.51	0.58	0.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.26	52.02%	
total all species	2.28	3.31	2.45	1.06	2.58	0.00	0.00	0.00	4.19	0.00	0.00	0.00	15.87	100.00%	
%	0.14	0.21	0.15	0.07	0.16	0.00	0.00	0.00	0.26	0.00	0.00	0.00	100.00%		

**Annex: 11. Stand and stock for Beyzam CF=Average number of trees/ha. For (NT) trees.**

STAND & STOCK TABLE SHEET 1 - NUMBER OF TREES														
1. Name of CF	Beyzam CF													
2. Species Group	Chirpine													
3. No of Plots	52													
4. Block Name														
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	%
													0.00	0.00%
Chirpine (N)	1.92	0.77	1.54	0.38	0.77	0.00	0.00	0.00	0.38				5.76	12.50%
total conifer	1.92	0.77	1.54	0.38	0.77	0.00	0.00	0.00	0.38	0.00	0.00	0.00	5.76	12.50%
Oak(N)	0	0.77	1.54	0.38	0	0	0	0	0				2.69	5.83%
Schima(N)	3.85	3.46	0.38	0.00	0.00	0.00	0.00	0.00	0.00				7.69	16.67%
Castanopsis(N)	1.54	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00				2.69	5.83%
Other broadleaf(N)	21.92	5.00	0.00	0.00	0.38	0.00	0.00	0.00	0.00				27.30	59.17%
total broadleaf	27.31	10.38	1.92	0.38	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	40.37	87.50%
total all species	29.23	11.15	3.46	0.76	1.15	0.00	0.00	0.00	0.38	0.00	0.00	0.00	46.13	100.00%
%	0.63	0.24	0.07	0.02	0.02	0.00	0.00	0.00	0.01	0.00	0.00	0.00	100.00%	

**Annex: 12. Forest resources Assessment –compilation sheet for Conifer Tree**

OPERATIONAL INVENTORY: COMPILATION SHEET (FIXED-SIZE PLOT)								
1. CF Name			: Bayzam CF			4. Block Area		22.15ha
2. Block Name			:			5. Compiling date		
3. No of plots			.....52.....			Pinus roxburghii		
			..			6. Species group		
T- Trees								
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	0.055	0.05	0.385	41	15.77	0.27	0.87
20-29	0.047	0.233	0.05	0.385	61	23.46	1.10	5.47
30-39	0.093	0.609	0.05	0.385	46	17.69	1.65	10.77

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40-49	0.156	1.255	0.05	0.385	87	33.46	5.22	41.99
50-59	0.233	2.240	0.05	0.385	29	11.15	2.60	24.98
60-69	0.327	3.631	0.05	0.385	19	7.31	2.39	26.53
70-79	0.436	5.493	0.05	0.385	5	1.92	0.84	10.56
80-89	0.561	7.892	0.05	0.385	4	1.54	0.86	12.14
90-99	0.701	10.89	0.05	0.385	1	0.38	0.27	4.19
<b>Total</b>					<b>293</b>	<b>112.69</b>	<b>15.20</b>	<b>137.52</b>
<b>N- Trees</b>								
10 --19	0.017	0.055	0.05	0.385	5	1.92	0.03	0.11
20-29	0.047	0.233	0.05	0.385	2	0.77	0.04	0.18
30-39	0.093	0.609	0.05	0.385	4	1.54	0.14	0.94
40-49	0.156	1.255	0.05	0.385	1	0.38	0.06	0.48
50-59	0.233	2.240	0.05	0.385	2	0.77	0.18	1.72
60-69	0.327	3.631	0.05	0.385	0	0.00	0.00	0.00
70-79	0.436	5.493	0.05	0.385	0	0.00	0.00	0.00
80-89	0.561	7.892	0.05	0.385	0	0.00	0.00	0.00
90-99	0.701	10.89	0.05	0.385	1	0.38	0.27	4.19
<b>Total</b>					<b>15</b>	<b>5.77</b>	<b>0.72</b>	<b>7.62</b>

**Annex: 13. Forest resources Assessment –compilation sheet for Broadleaved Trees**

<b>OPERATIONAL INVENTORY: COMPILATION SHEET (FIXED-SIZE PLOT)</b>								
1. CF Name		: Bayzam CF			4. Block Area		22.15ha	
2. Block Name		:			5. Compiling date			
		:						
3. No of plots		.....52.....			Broadleaved			
		.....			6. Species group			
<b>T- Trees</b>								
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)

*Beyzam Community Forest Management Plan, Trongsa Dzongkhag*

10 --19	0.017	0.078	0.05	0.385	6	2.31	0.04	0.18
20-29	0.047	0.287	0.05	0.385	9	3.46	0.16	0.99
30-39	0.093	0.686	0.05	0.385	2	0.77	0.07	0.53
40-49	0.156	1.323	0.05	0.385	0	0.00	0.00	0.00
50-59	0.233	2.235	0.05	0.385	1	0.38	0.09	0.86
60-69	0.327	3.462	0.05	0.385	0	0.00	0.00	0.00
70-79	0.436	5.033	0.05	0.385	0	0.00	0.00	0.00
80-89	0.561	6.991	0.05	0.385	0	0.00	0.00	0.00
90-99	0.701	9.361	0.05	0.385	0	0.00	0.00	0.00
<b>Total</b>					<b>18</b>	<b>6.92</b>	<b>0.36</b>	<b>2.56</b>
<b>N- Trees</b>								
10 --19	0.017	0.078	0.05	0.385	71	27.31	0.46	2.13
20-29	0.047	0.287	0.05	0.385	2	0.77	0.04	0.22
30-39	0.093	0.686	0.05	0.385	4	1.54	0.14	1.06
40-49	0.156	1.323	0.05	0.385	1	0.38	0.06	0.51
50-59	0.233	2.235	0.05	0.385	1	0.38	0.09	0.86
60-69	0.327	3.462	0.05	0.385	0	0.00	0.00	0.00
70-79	0.436	5.033	0.05	0.385	0	0.00	0.00	0.00
80-89	0.561	6.991	0.05	0.385	0	0.00	0.00	0.00
90-99	0.701	9.361	0.05	0.385	0	0.00	0.00	0.00
<b>Total</b>					<b>79</b>	<b>30.38</b>	<b>0.79</b>	<b>4.77</b>