

SAMDOEN COMMUNITY FOREST

SAMDOEN COMMUNITY FOREST MANAGEMENT PLAN (1ST REVISION)



| | |
|----------------------------------|-----------------------------|
| TOTAL AREA: | 119 HECTARES |
| NO. OF H/H: | 19 |
| VILAGE: | KEZARI AND KEMALAKHA |
| GEWOG: | DARLA |
| DZONGKAG: | CHUKHA |
| Plan period: 2023 to 2033 | |



འབྲུག་རྒྱལ་ཁབ་ཀྱི་རྒྱུ་རྩལ་ལྷན་ཁག་
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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/

300

September 29, 2023

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

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

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

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

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

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

Recommended by:


(Sonam Longay)
Chief Forestry Officer

Approved By:


(Director)
Department of Forest and Park Services

FRPMD/DoFPS/MoENR Post Box. No. 1345. Phone: (PABX) +975 (02) 334458/334487

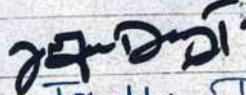
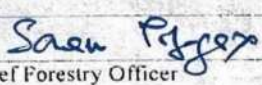
Approval Sheet

APPROVAL SHEET: COMMUNITY FOREST MANAGEMENT PLAN

| | |
|--|--------------------------|
| Name of Community Forest | Samdoen Community forest |
| Village | Kezari/Kemalakra |
| Chiwog | Kezari/Kemalakra |
| Gewog | Darla |
| Dzongkhag | Chukha |
| Production area (Hectare/Acre) | 46 Ha |
| Protection area (Hectare/Acre) | 0 Ha |
| Total Community Forest Area (Hectare/Acre) | 46 ha |
| Total CFMG Member (No. of HH) | 18 |

| | Community Forest Management Group | Forestry Representative (CFMP facilitator) | Gewog Administration | Forest Resources Planning and Monitoring Section | Divisional/Park Office |
|-----------|---|---|---|--|---|
| Signature |  |  |  |  |  |
| Name | Singye Dorji | Basant Thapa | Rinchen Dorji | Pema Gyeltshen | Rinzin Dorji |
| Title | Chairperson | Forest Ranger 1 In-Charge | GUP | CFMP | Chief Forestry Officer |

REVIEWED and RECOMMENDED FOR APPROVAL

| | | |
|-----------|---|--|
| Signature |  |  |
| Name | Tshelton Dorji | Saen Pigeon |
| Title | Focal Officer | Chief Forestry Officer |
| DIVISION | Forest Resources Planning and Implementation Section | Forest Resources Planning and Management Division |

APPROVED BY:



DIRECTOR

DEPARTMENT OF FORESTS AND PARK SERVICES

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ACRONYMS

| | |
|-------------|---|
| AAC..... | Annual Allowable Cut |
| AD..... | Annual Demand |
| AHL..... | Annual Harvesting Limit |
| CF..... | Community Forest |
| CFMG..... | Community Forest Management Group |
| CFMP..... | Community Forest Management Plan |
| CFO..... | Chief Forestry Officer |
| DoFPS..... | Department of Forest and Park Services |
| FNCRR | Forest and Nature Conservation Rules and Regulations 2017 |
| FO..... | Forest Officer |
| HH..... | Household |
| Nu..... | Ngultrum |
| RO..... | Range Officer |
| SFED..... | Social Forestry and Extension Division |
| SRF..... | State Reserved Forest |

Summary

Samdoen Community Forest Management Group consist of 19 households from Kemalakha and Kelzari villages under Darla Gewog, Chukha Dzongkhag. Village is located within the vicinity of Jumjha- Lhamoizingkha PNH. During first plan period 38 households from Kezari and Kemalakha had come forward to manage the Samdoen Community. However, during the plan revision, few members withdrew from the membership and some could not qualify for the membership as they have been not able to produce the separate house numbers. Hence 19 households will be managing the CF till other interested members could join the group after obtaining the gung number from Gewog Administration.

The communities depend on subsistence farming and Cardamom as their main cash crops. The forest ensures a considerable economic and environment asset to the community as the community depends upon CF for Timber and firewood since the nearby forest has already been allotted to BBPL.

The Community Forest have been incepted to be governed and guided by the following objectives set by the CFMGs:

1. *Sustainable harvesting and utilization timber*
2. *Plantation in barren areas with high value timber species*
3. *Protection from illegal harvesting of timber and poaching*
4. *Income generation from sale of timber in future.*

To meet the above objectives the CFMGs have also agreed and came to consensus to carryout silviculture activities such as Cleaning, Weeding, Thinning, Pruning, Protection from illegal activities, Protection of wildlife and sale of excess timbers and NWFPs in future. During the 10 years plan period, the communities have planned the activities mainly aimed towards overall improvement of the forest designated as CF and generating community income.

The CF falls under warm broad leaf forest with species composition of *Schima Wallichhii*, *Betula alnoides*, *Castanopsis tribuloides*, *Choerospondias axillaris*. The average basal area of whole CF area is 16.87 m²/ha. While comparing the present status of forest stock with total annual demand, it is justified that the Community Forest may meet the demand, due to less member in CF compared to the first plan cycle.

The forest is also home for many wildlife species. Most common species found are Gaur, Deer, Monkeys, Wild Pig etc. Birds are Hornbill, Nut cracker and many more. The Chubchuba block is also the habitat of Beautiful Nuthatch (*Sitta formosa*).

Section 1; Community Forest Management Plan

1.1. Introduction

The Samdoen Community Forest is managed by the 19 households from Kemalakha and Kelzari villages under Darla Gewog, Chukha Dzongkhag. The CF is located 3 km away from villages, yet is connected by the Jumjha-Lhamoizingkha PNH. Villages are situated up hill and downhill side of the primary national highway. For the first plan period 38 household from these communities had been managing the Samdoen Community. However, during the plan revision, few members withdrew from the membership and simultaneously most of the interested members could not qualified for the membership as they have not registered their house number separately although they have been actively participating in the CF activities. Hence only 19 households will be managing the CF till the other interested members obtain the house numbers from Gewog Administration which they have applied for.

The communities depend on subsistence farming, where Cardamom as their main cash crops. The population of the chiwog had close interaction with the forest and its products from time immemorial. The forest ensures a considerable economic and environment asset to the community as the community depends upon CF for Timber and firewood since the nearby forest has already been allotted to BBPL. The forest provides the people in the village with forestry products such as timbers for construction, fuel wood, and other minor forest products for their daily consumption.

With the initiation of CF in 2013, the members were bestowed with user rights from 49 hectares of CF to harvest timber, firewood, etc. based on their management plan. The Samdoen CF is divided into two Blocks namely Chubchuba Block covering 15 ha and Kapchakey block covering 34 ha for easy management based on their locations.

The average basal area of whole CF area is 16.87 m²/ha. The designated community forest is warm broad leaf forest with a species composition of *Schima Wallichhii*, *Betula alnoides*, *Castanopsis tribuloides*, *Choerospondias axillaris*, *Syzygium spp.* *Englehardtia spicata*. The part of the forest also has Maling Bamboo underneath. The forest is also home for many wildlife species. Most common species found are Gaur, Deer, Monkeys, Wild Pig etc. Birds are Hornbill, Nut cracker and many more. The Chubchuba block is also the habitat of Beautiful Nuthatch (*Sitta Formosa*). The communities have pledge to protect and conserve wildlife species by prohibiting killing in the CF

The Community Forest have been incepted to be governed and guided by following objectives set by the CFMGs:

1. Sustainable harvesting and utilization timber
2. Plantation in barren areas with high value timber species
3. Water source protection
4. Protection from illegal harvesting of timber and poaching

5. Income generation from sale of timber in future.

1.2. Community Forestry Boundaries Chubchuba Block

| Boundaries | Describe the permanent features |
|------------|--|
| East | Jumjha to Lhamoizingkha Primary National Highway buffer. |
| West | Talam towards Sachaphu |
| North | Touches part of Jumjha to Lhamoizingkha Primary National Highway |
| South | Chubchuba dry lake. |

1.2. Community Forestry Boundaries Kapchakey Block

| Boundaries | Describe the permanent features |
|------------|--|
| East | Foot path to Pemathang |
| West | Jumjha to Lhamoizingkha Primary National Highway buffer. |
| North | Private Land |
| South | Boxcutting Ridge |

1.2.1. Location of Community Forest

The CF location in relation to its beneficiary settlements are given in the google map. The map showed the detail location of CF area.

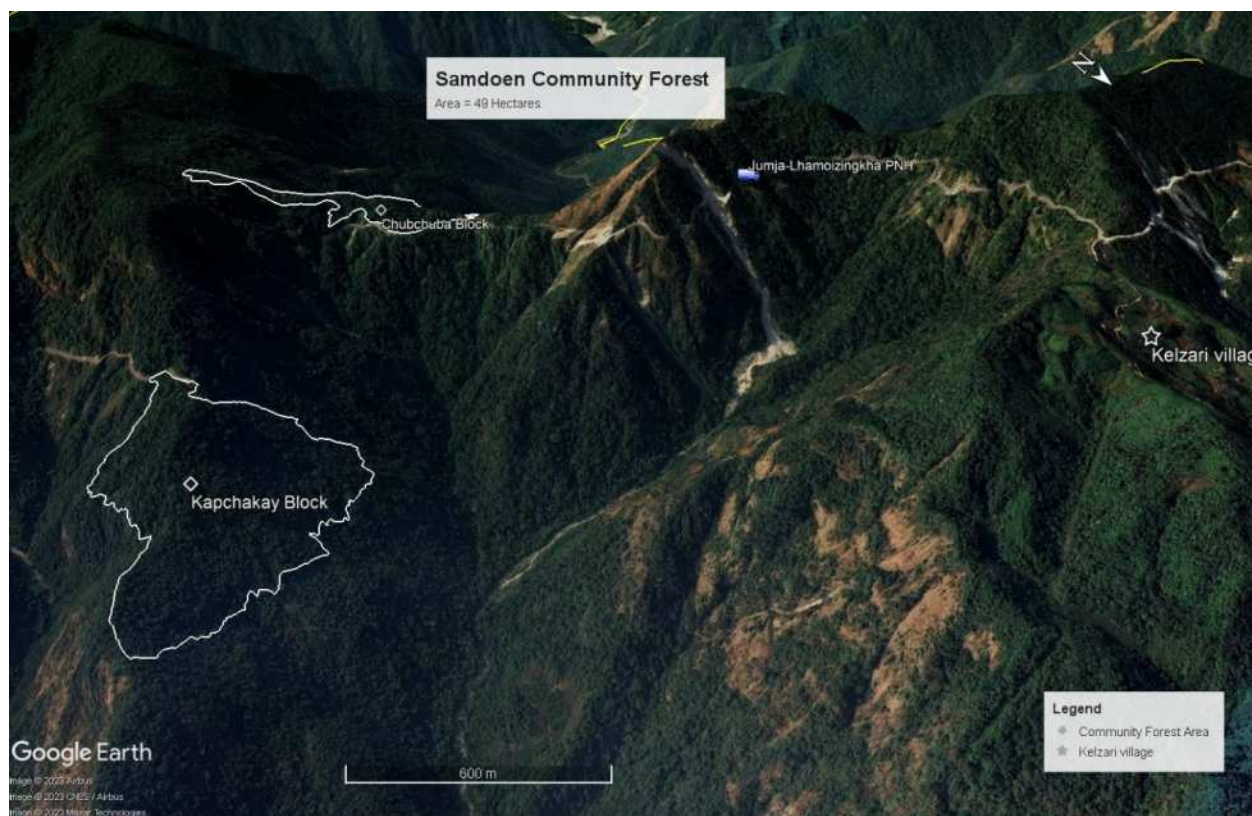


Figure 1: CF Location Map

1.2.2. Land use map of CF

The land use map showing the total CF area of 40.20 ha with majority area covered with broadleaf forest.

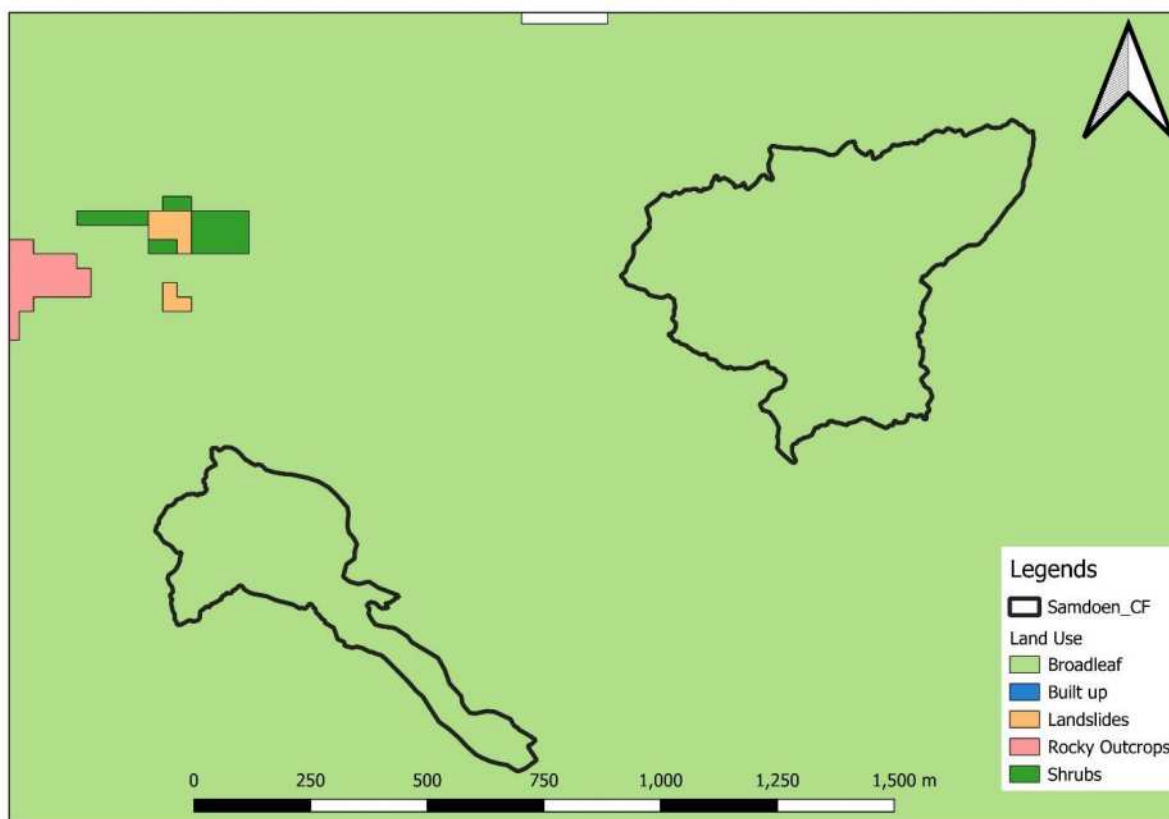


Figure 2: Land use map of CF

1.3. Social Information

| | Descriptions by points |
|------------------------------|--|
| Name of the villages: | Kezari/Kemalakha |
| History of the village: | As per the elder people, Kemalakha and Kezari was very thick forest in past and village had a few scattered houses. The forest was so thick that people were scared and used to shout while travelling from one house to another. Hence The name of the village was derived due to this situation in past “Kay” meaning Shout and “Re” meaning Thick Forest. |
| Ethnic groups with CFMG: | Homogenous (Ngalong) |
| Infrastructures: | ORC, Lhaxhang, Mobile tower, Primary National Highway and Farm Roads. |
| Total Household (HH) number: | 19 |

| | |
|-------------------------------------|--|
| Total human Population of CF area: | 167 |
| Gender Status (Male and female): | 87 male and 80 Female |
| Cattle population of the CF area: | 20 |
| Main crops: | Maize, Chilli and Cardamom |
| Cropping pattern: | Seasonal |
| Criteria for well-being livelihood: | Rich (Land > 5 acres, who own vehicles & Shop) Medium (land < 5 acres who does not own shop and vehicle) |
| No. HH (wealthy) | 9 |
| No. of HH (medium wealthy, if so) | 10 |
| Average annual income: | Nu./year 30,000/- to 100,000/- |
| If any add: | |

1.4. Forest Information

The forest condition of Samdoen Community Forest is matured with basal area 16.87 M²/ha. The forest is mainly composed of Warm Broad leaf forest species with the most dominant species found as *Schema wallichii*, *Castanopsis species*, *Syzygium* and *Betula spp* while, *Phoebe spp*, *Persea spp* and *Morus spp* occurring in lesser numbers. The CF also is partly covered with small bamboo. The general condition of the forest is Scattered growth of mature trees with pole stage and small Bamboo growing underneath. CF has moderate regenerations.

The average slope gradient ranges from 10-50 degrees and the soil erosion inside the CF is very minimal. The forest has diverse species of both flora and fauna. The endangered species that are occasionally seen in the forest are horn bill, the popular bird Nut cracker and Beautiful Nuthatch (*Sitta Formosa*) are also often sighted by people. The wild animal like Gaur and leopard has been occasional seen in CF while other animal like wild pig and Deer are often seen.

The preferred species by the community for construction from CF area are *Castanopsis spp*, *Choreospodius axillaris*, *Schima wallichii* and *Syzygium spp*. as other preferred species are rare in CF. The community Forest Management group utilize non timber, half dead tree, diseased trees as the fuel wood.

Whole CF Area

| Format 1. Forest Resource Assessment Format (Complete this format for each block) | |
|---|--------------------------|
| Name of Community Forest | Samdoen Community Forest |
| Date of Assessment | 26.02.2021 - 28.2.2021 |
| Name of block | Block I: Kepchakey |
| Block area | 34 ha |

| | |
|------------------|---|
| Basal Area | 20.92 m ² /ha |
| Name of recorder | Basant Thapa, Thinley Chedup, Sonam Lhendup and Yeshe Gyeltshen |

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

| Definitions | |
|--------------------|--|
| Broadleaf forest | 75% or more of the tree species present are hardwoods |
| Conifer forest | 75% or more of the tree species present are coniferous |
| Mixed forest | All other combinations of tree species |
| Mature Forest | Vegetation dominated by mature trees (trees > 40 cm dbh) |
| Thicket/pole stage | Vegetation > 3m in height consisting of young trees usually < 40cm dbh |
| Shrubs | Non-tree species > 2m in height (often thorny and multi-stemmed) |
| Shrub-land | Vegetation dominated by woody multi-stemmed plants or single stemmed plants and regeneration mostly < 3 m tall |
| Grassland | Vegetation dominated by grass species and where only a small part of the area is covered by trees or shrubs. |
| Crown cover | The percentage of the area covered by the crowns of trees forming the main canopy (usually mature trees) |
| Regeneration | Seedlings, saplings and coppice re growth of naturally occurring tree species that are less than 1.3 metres tall but greater than 30 cm tall |
| Seed trees | Mature trees with healthy crowns capable of producing flowers and seed |
| Soil Cover | The percentage of the area with soil surface covered either by live vegetation or a layer of other plant vegetation |

| b. Forest Condition | |
|--|------------------------------|
| Write the names of the 3 main tree species | |
| Local name | Scientific name |
| Katus | <i>Castanopsis tabularis</i> |

| | | | |
|--|---|--|--|
| Lapsi | <i>Choreospandius axillaris</i> | | |
| Chilauney (Lh) | <i>Schima wallichii.</i> | | |
| (i) Plantation | | | |
| Is there any Yes plantation? No <input checked="" type="checkbox"/> | Approximate 2 meters height of planted trees (m) | | |
| Year planted | Is the plantation? Under stocked <input type="checkbox"/> Stocked <input type="checkbox"/> Overstocked <input type="checkbox"/> | | |
| (ii) Forest Condition –Age | | | |
| Mature <input checked="" type="checkbox"/> Main canopy of mature trees | Pole stage <input type="checkbox"/> Main canopy of pole- stage trees | Shrubland <input type="checkbox"/> Main canopy of shrubs, young trees or regeneration | Any <input type="checkbox"/> No continuous canopy. Isolated trees only |
| (iii) Forest Condition - Canopy density | | | |
| Dense <input type="checkbox"/> Canopy density > 70% | Open <input checked="" type="checkbox"/> Canopy density < 70% | Very open <input type="checkbox"/> No real canopy. Isolated trees only | |

| | | |
|--|---|--|
| (iv) Forest Condition – Regeneration | | |
| Abundant <input type="checkbox"/> Regeneration easy to find in most places | Scattered/few <input checked="" type="checkbox"/> Regeneration only in some places and hard to find | None <input type="checkbox"/> No regeneration |
| Write the names of the 3 main tree species in the regeneration | | |
| 1) <i>Syzygium formosa</i> | 2) <i>Castanopsis spp</i> | 3) <i>Englehardtia spicata</i> |
| Regeneration: Seedlings > 30cm and < 1.3m height | | |

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

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

| |
|------------------|
| Forest Condition |
|------------------|

| Age | Canopy density | Regeneration & coppice | Seed tree class | Condition |
|----------------------------|----------------|------------------------|------------------|----------------|
| Mature forest | Dense | Abundant | | Very good |
| | | Scattered/few | Low | Good |
| | Open | Abundant | | Good |
| | | Scattered/few | Moderate | Average |
| Pole stage forest | Dense | Abundant | | Good |
| | | Scattered/few | Low | Average |
| | Open | Abundant | | Average |
| | | Scattered/few | High | Poor |
| Shrubland and young growth | Dense | Low | Moderate or High | Average |
| | Dense | Low | Low | Average |
| | Open | Moderate | Low | Poor |
| Any | Very open | None | Low | Poor |

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

| d. Open spaces | |
|---|------------------------|
| Approximate total open space area (ha) | 0.2 ha |
| Dominant vegetation type in the open space | <i>Betula Alnoides</i> |
| Cause of open space e.g.grazing, fire, harvesting, etc. | |

| e. Grazing and fodder | |
|-----------------------|--|
| Grassland type | |

| | | | |
|----------------------------------|-----------------------------------|----------------------------------|--|
| Natural <input type="checkbox"/> | Man-made <input type="checkbox"/> | Mixture <input type="checkbox"/> | Predominantly forest <input checked="" type="checkbox"/> |
| Main fodder species being used | | | |
| Local name | | Scientific name | |
| Phalido | | <i>Erythrina spp</i> | |
| Khanew | | <i>Ficus semicordata</i> | |
| Dudilo | | <i>Ficus nerifolia</i> | |

| | | |
|-----------------|-------------------------|-----------------------|
| Pasture quality | | |
| Local name | Scientific name | Palatable/unpalatable |
| Broom grass | <i>Thysanoleana spp</i> | palatable |
| Small bamboo | <i>Yushina spp</i> | palatable |
| | | |

| | | |
|--------------------------------------|--|-----------------------------------|
| Use pattern <input type="checkbox"/> | Seasonal <input checked="" type="checkbox"/> | All year <input type="checkbox"/> |
|--------------------------------------|--|-----------------------------------|

| | | | |
|--------------|------------------------------------|---|-------------------------------|
| Type of user | Migratory <input type="checkbox"/> | Local <input checked="" type="checkbox"/> | Both <input type="checkbox"/> |
|--------------|------------------------------------|---|-------------------------------|

| | | | |
|--|--|--|-------------------------------------|
| f. Catchment Condition | | | |
| (i) Catchment condition – soil cover | | | |
| Soil cover | | Soil cover class | |
| > 50% of the soils are covered by vegetation | | high | <input type="checkbox"/> |
| 25 - 50% of the soils are covered by vegetation | | moderate | <input checked="" type="checkbox"/> |
| < 25% of the soils are covered by vegetation | | low | <input type="checkbox"/> |
| (ii) Catchment Condition - Soil type and erosivity | | | |
| Soil type (colour, texture and type) | | | |
| Erosive <input checked="" type="checkbox"/> disperses and/or breaks up in water easily | | Non-erosive <input type="checkbox"/> stable to water flow | |
| (iii) Catchment Condition – Slope | | | |
| Slope (degrees) | Slope steepness class <input type="checkbox"/> | | |
| <10° | Gentle | <input type="checkbox"/> | |
| 10° – 30° | Moderate | <input checked="" type="checkbox"/> | |
| > 30° | Steep | <input type="checkbox"/> | |
| Catchment Condition Summary | | | |
| Less critical <input type="checkbox"/> | Moderately critical <input checked="" type="checkbox"/> | Highly critical <input type="checkbox"/> | |

| | |
|-----------------|-----------------|
| g. Fauna | |
| Local name | Scientific name |

| | |
|--------------|--------------------------|
| Barking Deer | <i>Muntiacus muntjac</i> |
| Wild pig | <i>Sus crofa</i> |
| Monkey | <i>Assamese macaque</i> |
| Gaur | <i>Bos gaurus</i> |

| h. Biotic Pressures (underline those present and level of severity) | | | |
|---|--------|------------|--------|
| Fire | Common | occasional | absent |
| Grazing | Heavy | Limited | absent |
| Shrub layer | Dense | Moderate | absent |
| Fodder collection | Common | Limited | absent |
| NWFP collection | Common | Limited | absent |
| Leaf litter collection | Common | Limited | absent |
| Encroachment | Common | occasional | absent |
| Pole harvesting | Common | occasional | absent |
| Fuel-wood harvesting | Common | occasional | absent |
| Timber harvesting | Common | occasional | absent |
| Hunting | Common | occasional | absent |
| Others (describe) | | | |

| i. Management options | |
|-----------------------|--|
| 1 | Thinning and removal of unwanted spp to promote the growth of young stand |
| 2 | Reduce continuous harvesting of timber and firewood to regain its stock capacity by following AHL and ACC strictly |
| 3 | Regular patrolling and monitoring are required against illegal harvesting of timber and NWFPS |

| Format 1. Forest Resource Assessment Format (Complete this format for each block) | |
|---|--|
| Name of Community Forest | Samdoen Community Forest |
| Date of Assessment | 26.02.2021 - 28.2.2021 |
| Name of block | Chubhuba |
| Block area | 15 ha |
| Basal Area | 12.83 m ² /ha |
| Name of recorder | Nima Tshering Sherpa and Sonam Lhendup |

| a. Forest & Habitat Type | | | |
|--------------------------|---|---|------------------------------------|
| Forest | √ | Thicket/pole stage <input type="checkbox"/> | Shrubland <input type="checkbox"/> |

| | | |
|--|---|---|
| Grassland <input type="checkbox"/> | Plantation <input type="checkbox"/> | Other <input type="checkbox"/> |
| Vegetation type | | |
| Subtropical forest | Chir pine forest <input type="checkbox"/> | Warm broadleaved forest <input checked="" type="checkbox"/> |
| Cool broadleaved forest <input type="checkbox"/> | Mixed conifer forest <input type="checkbox"/> | Fir forest <input type="checkbox"/> |
| | | Other <input type="checkbox"/> |

| Definitions | |
|--------------------|---|
| Broadleaf forest | 75% or more of the tree species present are hardwoods |
| Conifer forest | 75% or more of the tree species present are coniferous |
| Mixed forest | All other combinations of tree species |
| Mature Forest | Vegetation dominated by mature trees (trees > 40 cm dbh) |
| Thicket/pole stage | Vegetation > 3m in height consisting of young trees usually < 40cm dbh |
| Shrubs | Non-tree species > 2m in height (often thorny and multi-stemmed) |
| Shrub-land | Vegetation dominated by woody multi-stemmed plants or single stemmed plants and regeneration mostly < 3 m tall |
| Grassland | Vegetation dominated by grass species and where only a small part of the area is covered by trees or shrubs. |
| Crown cover | The percentage of the area covered by the crowns of trees forming the main canopy (usually mature trees) |
| Regeneration | Seedlings, saplings and coppice re growth of naturally occurring tree species that are less than 1.3 metres tall but greater than 30cm tall |
| Seed trees | Mature trees with healthy crowns capable of producing flowers and seed |
| Soil Cover | The percentage of the area with soil surface covered either by live vegetation or a layer of other plant vegetation |

| | |
|--|--|
| b. Forest Condition | |
| Write the names of the 3 main tree species | |
| Local name | Scientific name |
| Katus | <i>Castanopsis tabularis</i> |
| Lapsi | <i>Choreospandius axillaris</i> |
| Chilauney (Lh) | <i>Schima wallichii.</i> |
| (i) Plantation | |
| Is there any Yes plantation? No <input checked="" type="checkbox"/> | Approximate 2 meters height of planted trees (m) |

| | | | | |
|--|--|--|---|--|
| Year planted | Is the plantation? | | | Under stocked <input type="checkbox"/> |
| | | | | Stocked <input type="checkbox"/> |
| | | | | Overstocked <input type="checkbox"/> |
| (ii) Forest Condition –Age | | | | |
| Mature <input checked="" type="checkbox"/> | Polestage <input type="checkbox"/> | Shrubland <input type="checkbox"/> | Any <input type="checkbox"/> | |
| Main canopy of mature trees | Main canopy of pole-stage trees | Main canopy of shrubs, young trees or regeneration | No continuous canopy. Isolated trees only | |
| (iii) Forest Condition - Canopy density | | | | |
| Dense <input type="checkbox"/> | Open <input checked="" type="checkbox"/> | Very open <input type="checkbox"/> | | |
| Canopy density > 70% | Canopy density < 70% | No real canopy. Isolated trees only | | |

| | | |
|--|---|--------------------------------|
| (iv) Forest Condition – Regeneration | | |
| Abundant <input type="checkbox"/> | Scattered/few <input checked="" type="checkbox"/> | None <input type="checkbox"/> |
| Regeneration easy to find in most places | Regeneration only in some places and hard to find | No regeneration |
| Write the names of the 3 main tree species in the regeneration | | |
| 1) <i>Syzygium formosa</i> | 2) <i>Castanopsis spp</i> | 3) <i>Englehardtia spicata</i> |
| Regeneration: Seedlings > 30cm and < 1.3m height | | |

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

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

| Forest Condition | | | | |
|------------------|----------------|------------------------|-----------------|-----------|
| Age | Canopy density | Regeneration & coppice | Seed tree class | Condition |
| Mature forest | Dense | Abundant | | Very good |
| | | Scattered/few | Low | Good |
| | Open | Abundant | | Good |

| | | | | |
|----------------------------|-----------|---------------|------------------|----------------|
| | | Scattered/few | Moderate | Average |
| Pole stage forest | Dense | Abundant | | Good |
| | | Scattered/few | Low | Average |
| | Open | Abundant | | Average |
| | | Scattered/few | High | Poor |
| Shrubland and young growth | Dense | Low | Moderate or High | Average |
| | Dense | Low | Low | Average |
| | Open | Moderate | Low | Poor |
| Any | Very open | None | Low | Poor |

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

| d. Open spaces | |
|---|---|
| Approximate total open space area (ha) | 0.2 ha |
| Dominant vegetation type in the open space | <i>Alnus nepalensis</i> , <i>Castanopsis spp</i> , <i>Betula alnoides</i> . |
| Cause of open space e.g.grazing, fire, harvesting, etc. | |

| e. Grazing and fodder | | | |
|----------------------------------|-----------------------------------|----------------------------------|--|
| Grassland type | | | |
| Natural <input type="checkbox"/> | Man-made <input type="checkbox"/> | Mixture <input type="checkbox"/> | Predominantly forest <input checked="" type="checkbox"/> |
| Main fodder species being used | | | |
| Local name | | Scientific name | |
| Khanew | | <i>Ficus semicordata</i> | |
| Phalido | | <i>Erythrina spp</i> | |

| | |
|-------|----------------------|
| Tanki | <i>Bauhinia spp.</i> |
|-------|----------------------|

| Pasture quality | | |
|-----------------|-------------------------|-----------------------|
| Local name | Scientific name | Palatable/unpalatable |
| Small Bamboo | <i>Yushina spp</i> | |
| Broom grass | <i>Thysanoleana spp</i> | |
| | | |

| | | | | | |
|-------------|--------------------------|----------|---|----------|--------------------------|
| Use pattern | <input type="checkbox"/> | Seasonal | ✓ | All year | <input type="checkbox"/> |
|-------------|--------------------------|----------|---|----------|--------------------------|

| | | | | | | |
|--------------|-----------|--------------------------|-------|---|------|--------------------------|
| Type of user | Migratory | <input type="checkbox"/> | Local | ✓ | Both | <input type="checkbox"/> |
|--------------|-----------|--------------------------|-------|---|------|--------------------------|

| f. Catchment Condition | | |
|--|--|--|
| (i) Catchment condition – soil cover | | |
| Soil cover | Soil cover class | |
| > 50% of the soils are covered by vegetation | high | <input type="checkbox"/> |
| 25 - 50% of the soils are covered by vegetation | moderate | ✓ |
| < 25% of the soils are covered by vegetation | low | <input type="checkbox"/> |
| (ii) Catchment Condition - Soil type and erosivity | | |
| Soil type (colour, texture and type) | | |
| Erosive ✓ disperses and/or breaks up in water easily | Non-erosive | <input type="checkbox"/> |
| | stable to water flow | |
| (iii) Catchment Condition – Slope | | |
| Slope (degrees) | Slope steepness class <input type="checkbox"/> | |
| <10° | Gentle | <input type="checkbox"/> |
| 10° – 30° | Moderate | ✓ |
| > 30° | Steep | <input type="checkbox"/> |
| Catchment Condition Summary | | |
| Less critical | <input type="checkbox"/> | Moderately critical ✓ |
| | | Highly critical <input type="checkbox"/> |

| g. Fauna | |
|--------------|--------------------------|
| Local name | Scientific name |
| Barking Deer | <i>Muntiacus muntjac</i> |
| Wild pig | <i>Sus crofa</i> |
| Monkey | <i>Assamese macaque</i> |
| Gaur | <i>Bos gaurus</i> |

| h. Biotic Pressures (underline those present and level of severity) | | | |
|---|--------|------------|--------|
| Fire | Common | occasional | absent |
| Grazing | Heavy | Limited | absent |
| Shrub layer | Dense | Moderate | absent |
| Fodder collection | Common | Limited | absent |
| NWFP collection | Common | Limited | absent |
| Leaf litter collection | Common | Limited | absent |
| Encroachment | Common | occasional | absent |
| Pole harvesting | Common | occasional | absent |
| Fuel-wood harvesting | Common | occasional | absent |
| Timber harvesting | Common | occasional | absent |
| Hunting | Common | occasional | absent |
| Others (describe) | | | |

| i. Management options | |
|-----------------------|--|
| 1 | Thinning and removal of unwanted spp to promote the growth of young stand |
| 2 | Reduce continuous harvesting of timber and firewood to regain its stock capacity by following AHL and ACC strictly |
| 3 | Regular patrolling and monitoring are required against illegal harvesting of timber and NWFPS |

1.5. Participatory Environment Assessment

| Participatory Environmental assessment format for Samdoen Community Forest | | | | | | | | |
|--|---------------------------------|-------|--------------|--------|----------------------------------|-------------------------------|------------------|---|
| | Potential Environmental effects | | | | Potential Socio-Economic effects | | | |
| Activity proposed in CFMP | Soil | Water | Wild Animals | Plants | Traditional | Cultural and religious values | Local employment | Local benefits from the forest products |
| Fuel wood harvesting | - | -- | ++ | ++ | +++ | ++ | ++ | ++ |
| Forest protection | +++ | +++ | +++ | +++ | ++ | +++ | +++ | +++ |
| Thinning | +++ | ++ | 0 | +++ | +++ | 0 | ++ | ++ |
| Weeding/Cleaning | ++ | 0 | 0 | +++ | ++ | 0 | + | ++ |
| Timber Harvesting | -- | -- | -- | -- | 0 | - | ++ | ++ |
| Fire Control | +++ | ++++ | +++++ | +++++ | +++ | +++ | +++ | +++ |
| Grazing control | +++ | ++ | ++++ | +++++ | ++ | ++ | +++ | ++ |
| NWFP Mgt | -- | --- | -- | ++ | 0 | 0 | +++ | ++ |

Positive effects shown by (+ + +), Negative effects shown by (- - -) and no effects (or not relevant) shown by 0)

1.5.1. Address potential negative effects

| Activity | Procedures |
|----------------------|---|
| Timber Harvesting | <p>Felling of trees on the slopes >50% will be restricted</p> <p>Felling of trees in the water source areas within 20m radius will be prohibited</p> <p>Selective felling will be done to ensure enough trees are retained</p> |
| Fuel wood harvesting | <p>Felling and rolling of the logs on the slopes will be restricted</p> <p>Quantities of trees to be felled will be controlled and distribution will be done on need basis.</p> |

1.6. Climate Hazard Assessment

| Climate Hazard Matrix | | | | | | |
|-----------------------|-----------|-----------|---------|-------------|-----------------|---------------------|
| | Landslide | Flood | Drought | Forest fire | Animal diseases | Reduced crop yields |
| Landslide | x | Landslide | Drought | Forest fire | Animal diseases | Reduced crop yields |
| Flood | | X | Drought | Forest fire | Animal diseases | Reduced crop yields |
| Drought | | | x | Forest fire | Drought | Drought |
| Forest fire | | | | X | Forest fire | Forest fire |
| Animal diseases | | | | | X | Animal diseases |
| Reduced crop yields | | | | | | X |

Result: 1st=Forest fire (5), 2nd=Drought (4), 3rd=Animal diseases (3), 4th=Reduced crop yields (2), 5th=Landslide (1), 6th=Flood (0).

1.6.1 Climate Vulnerability Assessment

| Social group/Sector | Landslide | Flood | Reduced crop yields | Animal disease | Forest fire |
|---------------------|----------------------------------|-------|--|---|-------------|
| Rich | 1.Plant trees 2. Built walls. | NA | 1. Buy quality fertilizers 2. Use Locally composed manure | 1. Afford to get treatment instantly. | NA |
| Medium | 1. Plants trees. | NA | 1.Buy fertilizers 2.Use Locally composed manure | 1. Afford to get treatment instantly. | NA |
| Poor | 1.Plant trees | NA | 1.Use Locally composed manure | 1. Get treatment from nearest Livestock centre. | NA |

1.7 Annual Allowable Cut (AAC)

| AAC for Chubchuba Block | | | | | | | |
|-------------------------|-----------|-------|-------|----------|-----------|----------|--------|
| Products | Dangchung | Tsim | Cham | Drashing | Pole/Post | Firewood | Total |
| m3 | 0.14 | 1.01 | 1.96 | 7.05 | 1.21 | 1.63 | 11.38 |
| cft | 5.11 | 35.71 | 69.35 | 248.92 | 42.73 | 57.63 | 401.82 |
| Nos. | 2 | 4 | 3 | 2 | 13 | 3 | 27 |

| AAC for Kabchakay Block | | | | | | | |
|-------------------------|-----------|-------|--------|----------|-----------|----------|---------|
| Products | Dangchung | Tsim | Cham | Drashing | Pole/Post | Firewood | Total |
| m3 | 0.19 | 0.84 | 3.16 | 28.32 | 3.33 | 13.03 | 48.87 |
| cft | 6.72 | 29.66 | 111.51 | 1000.22 | 117.66 | 460.30 | 1726.06 |
| Nos. | 2 | 3 | 5 | 9 | 20 | 13 | 52 |

| Total AAC Samdoen CF | | | | | | | |
|----------------------|-----------|-------|--------|----------|-----------|----------|---------|
| Products | Dangchung | Tsim | Cham | Drashing | Pole/Post | Firewood | Total |
| m3 | 0.33 | 1.85 | 5.12 | 35.37 | 4.54 | 14.66 | 61.88 |
| cft | 11.82 | 65.37 | 180.86 | 1249.13 | 160.40 | 517.93 | 2185.51 |
| Nos. | 4 | 7 | 8 | 11 | 33 | 16 | 79 |

1.7. Forest Produces Demand Assessment

| Produce | Annual requirement (estimated) | | Number of HH that require produce annually © | Total requirement of the produce (Annually) | | Total requirement of the produce in 10 years | |
|----------------------|--------------------------------|----------------------|--|---|--------------------------|--|-------------------------|
| | Number (A) | Volume (in cfts) (B) | | Number (A*C)=D | Volume (in cfts) (B*C)=E | Number (D*10) | Volume (in cfts) (E*10) |
| For new construction | | | | | | | |
| Drashing | 18 | | 0.5 | 9 | | 90 | |
| For Renovation | | | | | | | |
| Drashing | 5 | | 0.7 | 3.5 | | 35 | |
| Firewood | 2 | | 16 | 32 | | 320 | |
| Fencing posts | 30 | | 5 | 150 | | 1500 | |

1.8. AAC vs Demand Assessment

| Produce | Total AAC (Numbers) | Total Annual Demand (Numbers) | Difference (Numbers) | Comments |
|---------------|---------------------|-------------------------------|----------------------|---|
| Drashing | 11 | 13 | -2 | Cham can be allotted to meet demand. |
| Firewood | 16 | 32 | -16 | Lops & tops, diseased and windfallen can be used as firewood. |
| Fencing posts | 33 | 150 | -117 | Dangchung, Tsim can be allotted. |

1.9. Forest Management**1.9.1. Overall Management objectives of CF**

The CFMG of Samdoen Community Forest has set following overall objectives as the guiding tool for the sustainable management of the Community Forest:

1. Sustainable harvesting and utilization timber

2. Plantation in barren areas with high value timber species
3. Water source protection
4. Protection from illegal harvesting of timber and poaching
5. Income generation from sale of timber in future.

1.9.2. Forest Management procedures

| CF Management procedures- Samdoen Community Forest | | | | |
|--|----------------------------------|---|---|--|
| 1 | Produce/Service | Drashing | Firewood | NWFP's |
| 2 | Main species | Chilauney, Panisaj, Utis, Tooni, Kimbu, Betula | Chilauney, Kubendey, harey, sheto pati, Shilingey | Stone and aggregates, broom |
| 3 | Problems | Insuffecient | Insuffecient | <ol style="list-style-type: none"> 1. Insufficient for commercial purpose in case of broom 2. Stone and aggregates abundant for commercial purpose |
| 4 | Opportunity | <ol style="list-style-type: none"> 1. Avail from SRFL 2. Plant high value timber 3. Retain cham size to attain drashing size | <ol style="list-style-type: none"> 1. Use unwanted species, dead, wind fallen and top broken trees 2. Retain inferior species from rampant cutting 3. Switch to electric cookers and gas stoves. | Marketing of NWFP for income generation. |
| 5 | Management Objectives | <ol style="list-style-type: none"> 1. Sustainable harvesting 2. Harvest as per AAC | <ol style="list-style-type: none"> 1. Reduce over lopping for fodders 2. Strictly follow MP | |
| 6 | Activities to achieve objectives | <ol style="list-style-type: none"> 1. Plantation activity 2. Cleaning | <ol style="list-style-type: none"> 1. Plantation in registered fallow land 2. Limit fodder collection from CF | |

| | | | | |
|---|------------------|--|---|--|
| 7 | Procedure | 1. Plantation in open areas 2. Cleaning of unwanted species 3. Strictly follow AAC | 1. Seek support for fodder saplings from livestock. 2. Procure seedlings from forest nursery | |
| 8 | Responsibilities | CFMG Members | CFMG Members | |

1.9.3. Forest Produce Ranking

| Products/services | Timber | Firewood | Mushroom | Fodder | Leaf litter | Water | Grazing |
|-------------------|--------|----------|-------------|-------------|-------------|-------|---------|
| Timber | x | | | | | | |
| Firewood | Timber | x | | | | | |
| Mushroom | Timber | Firewood | x | | | | |
| Fodder | Timber | Firewood | mushroom | X | | | |
| Leaf litter | Timber | Firewood | Leaf litter | Leaf litter | x | | |
| Water | Water | Water | Water | Water | Water | x | |
| Grazing | Timber | Firewood | Grazing | Grazing | Leaf litter | Water | x |
| Total | 5 | 4 | 1 | 0 | 3 | 6 | 2 |

Ranking result: 1st=water (6), 2nd=timber (5), 3rd=firewood (4), 4th=Leaf litter (3), 5th=Grazing (2), 6th=mushroom (1), 7th=fodder (0).

2.9.4. Forest product and Species Preferences

| Species/Local Name | Users | Drashing | Fencing Post | Firewood |
|--------------------|--------------|----------|--------------|----------|
| Panisaj | Preference | Xxxxxx | | xxx |
| | availability | ** | ** | ** |
| Katus | preference | Xxx | xxx | xxxxx |
| | availability | *** | *** | *** |
| Chilauney | preference | Xxx | xxxxx | xxxxxx |
| | availability | ***** | ***** | ***** |
| Kimbu | preference | Xxxxxx | | |
| | availability | * | * | * |
| Tooni | preference | Xxxxxx | | |

| | | | | |
|--------|--------------|------|----|----|
| | availability | * | * | * |
| Peepli | preference | Xxxx | | |
| | availability | ** | ** | ** |

+++++= Highly Preferred += Least Preferred, xxxxx = Availability, x =Scarcely available

1.9.5. Participatory Forest Resource and Services Monitoring

| Objective/Activity | Indicator | How it will be monitored | Responsibility | Comments |
|--|--|--|----------------------------------|--|
| Ensure sustainable timber production and sell excess in future for income generation | Increase in size of trees retained | Reports of apprehensions by Resoops during their periodic patrolling | CF Committee Members and Resoops | Territorial Forest Division render technical support |
| Protect and conserve wildlife inside the Community Forest. | Cases of hunting and poaching inside CF | Decrease in number of reports by the Resoops and members | CF Committee Members and Resoops | Territorial Forest Division render technical support |
| Prevent and prohibit outsiders from collection of forest products from the CF | Cases of illegal activities by outsiders inside CF | Decrease in number of reports by the Resoops and members | CF Committee Members and Resoops | Territorial Forest Division render technical support |

1.9.6. Monitoring Plans

| Participatory Forest Resource Impact Monitoring table. | | | | |
|--|---|--|----------------------------------|---|
| Activity | Indicator | How it will be monitored | Responsibility | Comments |
| Ensure sustainable timber production a sell excess in future for income generation | Increase in size of trees and dwindle in cases of illicit felling | Reports of apprehensions by Resoops during their periodic patrolling | CF Committee Members and Resoops | Territorial Forest Division should render technical support |
| Protect and conserve wildlife inside the Community Forest. | Cases of hunting and poaching inside CF | Decrease in number of reports by the Resoops and members | CF Committee Members and Resoops | |
| Prevent and prohibit outsiders from collection of forest products from the CF | Cases of illegal activities by outsiders inside CF | Decrease in number of reports by the Resoops and members | CF Committee Members and Resoops | |
| Protect and Plantation of Khair in CF | Cases of illegal felling and increase the Khair area | Reports of Resoops and plantation journal | CF committee member and Resoop | |

| Participatory Social and Institutional impact Monitoring table. | | | | |
|---|--|----------------------------------|----------------|---------------------------------|
| Activity | Indicator | How it will be monitored | Responsibility | Comments |
| Loan for CFMG | ➤ Number of HH provided with loan. | ➤ Records in CF fund management. | ➤ CFMG | ➤ Facilitate by Forestry Staff. |
| CF general meeting | ➤ Numbers of Participants. ➤ Resolutions. | ➤ CFMG records of meeting. | ➤ CFMG | |
| CF committee meeting | ➤ Resolution of meetings. | ➤ CFMG records of meeting. | ➤ CFMG | |

| Participatory Environmental Impact Monitoring Table | | | | |
|--|---|--|----------|--|
| Indicator | How it will be monitored | Responsibility | Comments | |
| ➤ Formation of more gullies and frequent occurrence of Landslides. | ➤ Identify newly formed gullies and landslide areas. ➤ Identify the causes. ➤ Identify the mitigation measures. | ➤ CFMG. ➤ Divisional Forest Office. | | |

1.9.7. Annual Work plan

| Objective | Activity | Year | | | | | | | | | |
|--|---|--|---|-----|------|---|---|---|---|---|----|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| Protection from illegal harvesting of timber and poaching | Boundary demarcation | | | | | | | | | | |
| | Patrolling in CF areas | | | | | | | | | | |
| | Awareness to public | | | | | | | | | | |
| | Creation of signage | | | | | | | | | | |
| Sustainable utilization of forest resources | Silvicultural operation activities | Selection system will be followed for marking in CF Area | | | | | | | | | |
| | Cleaning and thinning in the CF area | | | | | | | | | | |
| | Plantation in barren area | | | B I | B II | | | | | | |
| Income generation through sale of excess forest produce in future. | Sale of excess timber, fuelwood and NWFPs | | | | | | | | | | |
| Water source protection | Restrict tree felling in buffer area | | | | | | | | | | |

Note: -The patrolling/monitoring shall be carried out in January, April and October months every year

1.10. Monitoring, review and evaluation

The annual work plan and progress report of the CF shall be submitted to the concerned forest officer based on Annexure 2 format 1. The monitoring of CF activities and maintaining of the records should be carried by concerned forest officer jointly with CF management committee. A mid-term review shall be carried out at the last quarter of the 5th year plan period. and the final at the last quarter of the 9th year plan period. The review and final evaluation report shall be based on Annexure 6 from forestry field manual for Bhutan 2018 (3rd edition).

1.11. CF Networking

Samdoen Community Forest can participate in CF networking programs initiated by DoFPS to encourage development of CF cooperation with other CFs in the Geog, Dzongkhag and CFs of Bhutan.

Part 2; Community Forest By-Laws

2.1. CFMG membership

- i. The revised CF bylaws supersedes all sections of 2013 CF by-laws; however, the name of CF remains unchanged (Samdoen Community Forest).
- ii. The name of the CFMG shall be known as Samdoen Community Forest Management Group.
- iii. The management group comprises of 16 households from Samdoen village.
- iv. It shall come into effect after the formal approval by the Department of Forest and Park services.
- v. The new members shall be allowed to join the CFMG without entry fee if he/she is separated from the house of registered CF members.
- vi. No outsider shall be entertained as CFMG member, however the households legally resettling in the chiwog and interested to join the CFMG will be entertained upon payment of Nu. 4,000 as an entry fee.
- vii. Any member enrolling as new CF member shall need to produce valid thram and Gung.
- viii. All enrollments of any new CFMG members shall be done only after consulting the existing CFMG members during the time of meeting.
- ix. A copy of new membership application should be forwarded to concerned forest officer for necessary updating of the membership list.
- x. Those resigned member/family will not be allowed to rejoin in CF membership at all times to come.

2.2. Membership fees

The CFMG members will collect the annual membership fee of Nu. 100/- and deposit it into CF account.

2.2.1. Incentives for Executive Members

- i. Sum of Nu. 500.00 (Five Hundred) only will be provided annually to executive members which will be shared among the Executive members as a voucher allowances.
- ii. A lumpsum of Nu. 600.00 (Six Hundred) only will be paid to Executive members as a TA per occasion for the services rendered for CFMG purposes.

2.3. Withdrawal of membership.

- i. Members have the right to withdraw from membership if he/she is not interested upon payment of withdrawal fee of Nu. 5,000.00(Five Thousand) but will not be allowed to join again. However, the members with disabilities can withdraw from member without having to pay the withdrawal fee.

- ii. If CFMG withdraws its membership after ten years or after the completion of management plan, he/she need not have to pay Nu. 5,000 (Five Thousand). However, he/she cannot claim the amount contributed as membership fee.
- iii. The withdrawn members are also not entitled and cannot claim any benefit, compensation for labor contributed and membership fees for the management of Community Forest during his/her tenure as CFMG member.
- iv. Any members wishing to withdraw their membership can do so after prior approval of CF Chairperson, with the written application.
- v. The committee members are allowed to leave the post after serving minimum for 5 years if he/she is not interested to serve as executive member without any benefits.
- vi. A copy of resignation of membership application should be forwarded to concerned forest officer for necessary updating of the membership list.

2.4: Management committee formation

2.4.1: Composition of committee members

The executive members were selected amongst the member based on the qualification and experience by the members during CF planning meeting in presence of forestry officials.

- i. Executive committee comprises of Chairperson, Secretary, Treasurer and 2 Resoops to oversee the day-to-day activities of the CF.
- ii. The terms of executive members shall be for five years. The same person can be re-elected if the service rendered by him/her is found satisfactory by the members or else can be subject to termination even before the term is complete on disciplinary ground.

2.4.2: Election of the committee members

The CF management committee will be elected among CFMG members every after five years. However, they can be terminated and the election shall be carried out through unanimous decisions of the group. The election will be conducted during general meeting in the presence of concerned forestry officer.

2.4.3: Eligibility of the management committee members

Every member has the right to become the executive committee member unless he or she meets the following criteria:

- i. He/she should be the legal member of the CFMG
- ii. He/she should be able to read and write
- iii. Preference will be given to experience members
- iv. He/she should be mentally sound
- v. He/she should be 18 years and above and below 65 years of age
- vi. He/she should be living in the village permanently

2.4.4: Procedure for leaving the Executive Committee

- i. The chairman, secretary and treasurer are not allowed to leave their post for a period of 5 years. However, he/she will be allowed for the genuine reasons like death case, long term sickness, etc. with the submission of application to CFMG members. The approval is accorded only after the election and replacement of his/her post with the proper handing taking of CF accounts, properties and records based on Annexure 15. The same shall be applied to rest of the executive committee members.
- ii. A copy of handing taking charge sheet note along with a name list of newly elected members should be submitted to the concerned forest officer for necessary information and updating the records.

2.5. Terms of Reference for CF Management Committee.

| Sl. No | Title | Rights and Responsibilities |
|--------|-------------|--|
| 1 | Chairperson | <ol style="list-style-type: none"> 1. Plan and initiate CF activities. 2. Coordinate meetings. 3. Report progress of the Community Forest. 4. Issuance of permit and maintenance of CF books. 5. Sign joint accounts for transaction. 6. Monitor CF fund utilization. 7. Overall monitoring of CF activities as per the plan and reporting. 8. Sanction loans. 9. Work as per the Community Forest Management plan. |
| 2 | Secretary | <ol style="list-style-type: none"> 1. Assist Chairperson in his/her absence and coordinate the work. 2. Minute keeping 3. Sign on permit together with Chairperson as required in the permit. 4. Sign joint accounts for transaction. 5. Crosscheck Community Forest fund utilization. 6. Sign the loan sanction letter. 7. Respect the bylaws framed here in this management plan. |

| | | |
|---|-----------|---|
| 3 | Treasurer | <ol style="list-style-type: none"> 1. Maintain cash book and report Community Forest fund annually to Forest office. 2. Receive fines and penalties and deposit into CF accounts. 3. Keep detail accounts of the CF funds. 4. Withdraw and deposit of funds. 5. Sign the loan sanction letter. 6. Respect the bylaws framed here in this management plan. 7. Work as per the Annual Work plan of this management plan. |
| 4 | Resoops | <ol style="list-style-type: none"> 1. He/she has the right to patrol the CF area and report any illegal activities taking place in the CF areas. 2. He/she has the right to question any member for CF product utilization. 3. He/she be rewarded with the 50% of the amount in case if they apprehend any culprit 4. Assist the marking officer during marking and ensure the sanitation of the forest after the extraction. |

2.6. Roles and responsibilities of CFMG members

All the CFMG members must have following responsibilities:

- Every individual has to participate in the CF related activities and has equal rights to access over the resources;
- The equity and justice among members shall be maintained instead of focusing on equal share;
- Every individual shall have equal opportunity to elect the management committee members and shall have rights to speak and share concerns and suggestions;
- Each individual is responsible to inspect, verify and report illegal activities to the management committee and or to forestry officer;
- Everyone has equal opportunity to hold the post of management committee if he/she fulfills the above eligibility criteria;
- The members shall have rights and access to CF accounts and auditing the documents.
- He/she be rewarded with the 50% of the amount in case if they apprehend any culprit.

2.7. Benefit sharing mechanism

- The resource sharing shall be based on equity and the primary priority will be given to the members who do not have a house to live in or affected by disaster;
- The Quantity of timber to be allotted and the number of applicants is clearly prescribed in the management plan by comparing the AAC and the Demand assessment.
- No timbers trees will be granted free of cost. The permit shall be issued for each produce at the prescribed rate to generate adequate revenue/income for the group.

- iv. The secondary priority shall be given to single headed women;
- v. The timber granted for rural house construction shall be strictly prohibited for commercial sale and if any members being found in such activities shall be guilty of an offence and dealt as per FNCRR 2023 and FNCA 2023.
- vi. Timber shall not be entertained for exchanging or borrowing among members and outsiders;
- vii. The transit of timber shall be restricted to the concerned village only and shall not be allowed to reach at any construction sites, hotels and restaurants in the urban areas or along national high way;
- viii. Those infrastructures which are provided with government budget and given to the contractors will have to buy the timber as per market value from the CFMG.
- ix. The CFMG shall not contribute timber for any community constructions like the construction of community temple, school or BHU, etc. in the village if there is external fund support, however, timber may be allotted considering the AAC in their prescribe management plan;
- x. The executive members should ensure all the revenues generated are properly recorded and all the group members of the CF are well informed. This will ensure free and fair benefit sharing later.
- xi. No single person should take advantage and try to derive individual benefit from the group's hard-earned funds.
- xii. Every single produce that are supposed to go out of the Community Forest area should be declared to group members. The executive committee members together with representative from forestry department should ensure that this happens at any cost.
- xiii. Every forest produces in Community Forest areas shall be supplied to community members only after realization of royalty at prescribed rate in this management plan.
- xiv. Fuel wood shall be met from the lops and tops and as far as possible collect dry wood, if there are no dry woods, two number standing tree shall be issued.
- xv. Benefit sharing will be just and fair and the executive members together with concerned forestry officials should make sure this to happen by any means.
- xvi. The excess timber and fuel wood will be marketed based on the prevailing market rates to generate the community income
- xvii. Loan will be dispersed to interested individuals who wish to obtain it with the minimum interest rate of 9 % per annum.
- xviii. Water resources; individuals or institutions can use the water resources from CF areas upon payment of minimum monetary incentives to the CFMG which is agreed by both the parties.

2.7.1. Timber

- i. Members are entitled for timber as per the prescribed CF plan for construction of rural house and for other rural purposes;

- ii. The Chairman shall grant and allot permit for rural house construction from CF areas only if CF member submits rural house construction approval from concerned authority;
- iii. The management committee shall review applications and approve or reject the application based on the above section 2.7.1(ii) and supporting documents indicating requirement of timbers.
- iv. The priority shall be given to the members who have no proper houses or the houses which were affected by the disaster;
- v. The renovation or other construction purposes also have to submit the application to the chairman; however, the construction approval is not required;
- vi. The permit validity shall be 2 years from the date of issue of permit, after which the applicant should renew the permit and extend the dateline if collection and transit of timber is not completed.
- vii. The permit will be extended only for a period of 1 year upon payment of royalty. Failure to extract the timber on extended period will lead to allotment of timber to other needy individuals.
- viii. Timber for renovation of community lhakhangs, schools, outreach clinic will be provided at free of royalty provided there is no financial support provided by government.

2.7.2: Fuel wood

- i. Every individual CFMG member shall be allowed to collect dry fuel wood from the CF area as and when required, irrespective of the quantity without royalty.
- ii. The CFMGs shall be allotted with two number of standing trees for each household upon realization of the prescribed royalty.
- iii. Outsiders and Non-members shall not be allowed to collect any types of firewood from the designated CF forest areas.
- iv. Members who are allotted house construction timbers are not entitled for firewood. He/she have to collect debris of extracted timbers as firewood
- v. Members are allowed to collect sound standing tree but dried as firewood with the payment of royalty;

2.7.3: Fencing posts

- i. All CFMG members are entitled to get fencing posts based on their genuine cases;
- ii. Fencing posts shall be allotted with the maximum ceiling of 60 nos./ head or one Drashing in lieu of 60 nos. of fencing posts.
- iii. Timber species shall not be entertained for fencing posts;
- iv. Fencing posts can be sometimes met from bush clearing & thinning operation of CF block;
- v. Only malformed, diseased or inferior species should be allotted for fencing posts;
- vi. Outsiders are not allowed to harvest any fencing posts;

2.7.4. Fodder supply

- a) Fodder will be shared equally shared among the CFMG on head loads basis based on the number of cattle.
- b) Felling of trees for fodder will be restricted except de-branching.

2.7.5. Grazing in CF areas

- a) All the CFMG members have the traditional grazing rights in the CF area but are restricted from entering the plantation sites.
- b) Grazing for outsiders and non-members in the community forests area is strictly prohibited.

2.7.6. Bamboo

- a) Bamboo shall be supplied to members with free of royalty.
- b) The commercial royalty shall be charged for non-members.
- c) Bamboos will be harvested and marketed for income generation.

2.7.8. Surface collection

- a) Surface collection for stones will be restricted only for rural utilization from CF area for CFMG members only.
- b) CFMG members are allowed to collect for surface collection of stone/boulder and aggregates from CF with royalty for domestic use only. (Note: CFMG can avail stone and boulders from SRF land).

2.7.9. Non-wood Forest Product

- i. Collection of endangered NWFP species shall be restricted to both CFMG members and outsiders if found in CF areas;
- ii. Collection of mushroom or other NWFPs for self-consumption will be allowed without any royalty;
- iii. Members are allowed to collect leaf litters or top soil free of royalty;
- iv. Selling of NWFPs shall be permitted in a group but not as individual member;
- v. Outsiders are not allowed to collect any leaf litters, top soil or NWFPs from CF area.

2.8. Labor

- The CFMG members irrespective of all wealth groups will equally contribute the labor for activities related to community forestry management.
- No members shall miss any of the meetings or CF related activities and actively contribute the labor force.
- Absentees are liable to pay the fines as prescribed however the considerations for unavoidable circumstances such as death, sick and attending other important works related legal issues will be considered upon informing the Chairman.

2.9. Loan disbursement procedures.

CFMG member can avail the maximum loan amount of Nu.50,000 (Fifty Thousand) only. The decision shall be made by 2/3 majority of the CFMG members during general meeting;

- The treasurer shall maintain all the expenditure records like receipts, vouchers, bills, minutes of meeting, etc. All such expenses should be recorded to cash book immediately;
- The treasurer shall present the details of expenditure to the CFMG members and concerned inspection team as and when required;
- The concerned forest officer shall ensure the compliance of above provisions;

2.9(a). CFMG fund for loans and its procedures

The CFMG can allocate fund for loaning not more than 50% of the total fund. The borrower should submit an application as per Annexure 9 and draw an agreement based on Annexure 10 with the detail records of loan in Annexure 2, format 10.

2.9(b). Eligibility criteria for loan

Every CFMG members shall be given opportunity to avail loan from their CF fund with the fulfillment of following criteria:

- i. The loan amount of Nu.50,000.00 shall approved and released with mortgage.
- ii. Loan from CFMG fund shall not be given to non CFMG members;
- iii. The borrowers must be of 18 years and above;
- iv. Only one member from the households is eligible for loan at a time;
- v. Should not have any outstanding loan with CFMG;

2.9(c). Interest rate and loan term

All CFMG members are eligible to avail loan from the CF fund. The members shall be given an interest rate of 9% per annum. The loan shall be given on annual basis and every member should cleared their loan dues annually. The loan shall not be given to any members before 1 year of its expiry date of plan period and to non-members at any cost;

2.9(d). Repayment schedule and process

The borrower shall pay the principal amount including its total interest on annual basis. Upon the completion of its deadline, management committee shall conduct a general meeting whereby all the CFMG members are required to clear their annual loan dues. The fresh loan can be approved only after the repayment of its previous loan;

2.9(e). Penalties

Any member who fails to repay his/her loan in a given time shall be liable to pay a penalty from the date of expiry with reference to Annexure 2 format 10. The borrower should be liable to repay the loan amount with the interest rate of 12% per annum.

2.9(f). Loan approval and disbursement process

Any member who wants to avail a loan should fulfill the above eligibility criteria. The general meeting will approve the loan based on general consensus. The borrower and the management committee shall sign a loan agreement as per Annexure 10 before sanctioning of any loan. The loan agreement is prepared in two copies with one for CF management committee and another for borrower.

2.9(g). Loan review

At the end of each year, the CF management committee shall review all the loans and repayments. The information of the review shall be shared during CFMG general meeting.

2.10. Meetings**2.10.1. General meeting**

- i. The CFMG will conduct at least one meeting in a year.
- ii. All members are required to present during general meeting;
- iii. The meeting agenda shall be on annual work plan and activities periodization as per operational plan reflected in the management plan and fund management;
- iv. All issues related to CF planning, implementing and monitoring will be discussed.
- v. The meeting will also review the achievement of fiscal year activities;
- vi. The meeting discusses the CF related issues like insufficiency of timber, members conflict, illegal harvesting, by-laws incompatibilities and so on;

2.10.2. Executive members meeting

- i. All executive members are required to present during committee meeting;
- ii. The meeting shall be conducted at any time of the year if required necessary;
- iii. Any management issues which are to be managed at committee level shall be discussed and resolve in the meeting;

2.11. Fees (products/service fees, etc)

| Sl.No | Types of products | Royalty Rate (Nu) | |
|-------|--------------------|----------------------|---|
| | | Within CFMG | Outsiders |
| 1. | Drashing | Nu. 50/standing tree | As per NRPC rate and NRDCL. In case of bulk selling, rate shall be decided after meeting, involving representative from Forest and Geog administration. |
| 2. | Firewood | Nu. 100/Truckload | |
| 3. | Fencing Poles | Nu. 10/ Pole | |
| 4. | Bamboo | Free of royalty | |
| 5. | Fodder | Free of royalty | |
| 7. | Stone and boulders | Free of royalty | |

2.12. Fines and Penalties.

- i. Any illegal activities carried out inside the CF by CFMG members or the outsiders shall be dealt as per FNCRR, 2017 amended rules 2020.

- ii. All cases related to offence shall be registered with CF executive members and compounded by the CF executive members as per FNCRR 2023. In the event of not willing to settle the case by the defaulter the case will be forwarded to the concern forestry official for taking further steps to compound the case.
- iii. The fines and penalties collected either by CF executive members or by forestry officials should be deposited in joint CF account within one week of receipt of fines.
- iv. Any wild life related crime shall be dealt by concerned forest office and compounded based on FNCRR, 2023 or any rule that supersedes it. The fines so collected from it will go to Govt. revenue.
- v. All members, including the executive members are required to make their presence in meetings and group activities compulsorily.
- vi. Any absentees from work and meeting will be levied of fined Nu. 300/- (Three Hundred fifty) only, which is at per prevailing daily wage in the community. However, consideration will be given in the event of unavoidable circumstances such as death, sick and attending other important works related legal issues will be exempted and treated as kidu after informing chairperson.
- vii. Under age below 18 years will not accept in work or in meeting, the concerned household will be marked as absentee and levy fine as prescribed above.
- viii. Any executive members or other members found misusing the community funds will be terminated from the post. He/She shall be liable to pay double the amount being misused and together with the interest on the amount prescribed in this rule.
- ix. The misuse of power by the executive committee members and CFMG member shall be liable for fine and penalties and shall be treated at par with illegal doers. Thus, fine and compensation on the misused produces will be levied against them as per FNCRR, 2023 and rules that supersedes it.
- x. Collection of any NWFP from CF by CFMG members are permitted for domestic/home consumption.
- xi. Collection of any NWFP from CF area by non CFMG members will be considered as an offence and will be imposed a fine of Nu.1000/- (five hundred) only regardless of any products which are not listed in 2.12 (i). The products will be seized and auction by executive members and deposited in common fund.
- Grazing in the plantation area is strictly prohibited and is liable to pay the fine of Nu 300 (Two Hundred) only per cattle for CFMG members and Nu. 600 (Four Hundred) only for outsiders respectively. However, the offender will be made to bear cost of the seedling and fencing damaged by the cattle.

2.13. CF Fund Management

2.13.1. Source of fund

The probable sources of CF funds are as follows

- i. Membership fees
- ii. Royalties from the forest products
- iii. Fines and penalties
- iv. Interest returns from loan released to members and bank deposit
- v. Sale of forest products for commercial purposes

2.13.2. Procedure in CF fund management

- i. CFMG should continue with same bank account maintained with any financial institutions in the previous terms;
- ii. The account shall be operated under a joint signatory of chairman, treasurer and a secretary;
- iii. Money receipt should be issued for all the payments received;
- iv. Treasurer should collect all contributions, donations, fees, fines and maintain detail records for references;
- v. All financial records should be made available to authorized auditing team or inspection team at any time of the year.

2.13.3. CF fund utilization areas

Table 1: Areas where CFMG funds can be utilized

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

2.14. Record and book keeping

The management committee shall maintain the detail records of CF. All the CF official books should be kept under the safe custody of management committee and shall be available for reference at any time. The secretary is responsible for recordkeeping activities whereas the treasurer for bookkeeping activities in CF. The verification and overall maintenance of records should be done by chairman whereas the timely monitoring and technical support should be given by concerned forest officer

2.15. Conflict management

- i. The chairman is responsible for management of any conflict of CFMGs;

- ii. If Chairman fails to manage the conflict, he /she will put the issues in the CF general meeting for discussion and resolution and to higher authorities if the CF general meeting fails to manage the conflict;
- iii. The conflict related to wildlife, forest fire and developmental activities like farm road construction, land encroachment, etc. shall be directly forwarded to concerned forest officer for further necessary follow-up;

2.16. Developmental Activities within or through CF Area

- i. The community will not restrict or object any developmental activities such as construction of farm road, transmission lines, water supply etc taking place within the CF area. However, clearance has to be obtained from CFMG and concerned agencies shall have to compensate the damaged caused by the developmental activities as per the FNCRR, 2023. The assessment will be carried out by the Forestry officials in presence of CFMG and parties concerned.
- ii. CFMG can incorporate with any other groups which could benefit and generate income to the CFMG as whole in future

2.17. Amendment of CFMP and by-laws

- i. The approved and certified management plan serves as a legal document for managing the CF and its bylaws by CFMG members;
- ii. All the management activities are required to be carried out as per management plan and by-laws;
- iii. The CFMG shall have right to amendment some sections or criteria if found genuine by conducting general meeting in presence of forestry officials;
- iv. The members will be allowed to incorporate the amendment parts into the management plan and implement accordingly after receiving the recommended notification from the Department;

2.18. Powers of the Department

- i. With reference to FNCRR 2023, the Department shall suspend the rights and privileges of the CFMG members to control, manage and utilize the CF when members are unable to manage the CF according to its management plan and bylaws or otherwise fail to meet their responsibilities;
- ii. The Department also has the right to suspend the CF if the members engaged in any activities against the set provisions prescribed in the by-laws or management plan;
- iii. The CF shall be suspended for a minimum period of 3 years during which the CFMG members shall not be allowed to avail any forest produce from SRF land. After three years the Department shall review issue and decide for approval or rejection of the certificate based on the recommendation from CFO and SFED;

Annexure I: List of CFMG member Annexure II: List of CFMG Committee member

List of Samdoen CFMG

| Sl no | Name | CID | Gung No | Tharm no | Signature |
|-------|---|----------------------------|-----------|--------------|---|
| 1 | Ngawang | 10205003011 | Kha-5-526 | 396/213 |  |
| 2 | Namgay Dorji | 10205002962 | Kha-5-522 | 231/411 | |
| 3 | Pema Wangchuk C/O Tshelthrim Gyaltshen | 10205002979 10205002977 | Kha-5-523 | 430/233 | |
| 4 | Gorab Dorji | 10205003198 | Kha-5-543 | 29/404 | |
| 5 | Pem Lham | 10205002990 | Kha-5-424 | 405/190 | |
| 6 | Sonam Dorji | 10205002972 | KHA-5-895 | 1556 |  |
| 7 | Drugyal | 10205002879 | Kha-5-803 | 1489 |  |
| 7 | Ugyen | 10205001618 | Kha-5-491 | 308/196 | |
| 9 | Nachu | 10205002845 | Kha-5-743 | 644 |  |
| 10 | Singye Dorji | 10205002844 | Kha-5-516 | 413/33 |  |
| 11 | Dolay C/O Honim Pema | 10205003187 10205003185 | Kha-5-541 | 413/33/646 | |
| 12 | Gumata | 10205003021 | Kha-5-527 | 432/220 | |
| 13 | Tshering | 10205002935 | Kha-5-521 | 419/193/992 |  |
| 14 | Wangdi Gyeltshen C/O Yangma | 10205002876 10205002885 | Kha-5-518 | 78/429 |  |
| 15 | Thinley Pem | 10205002996 | Kha-5-525 | 414/215/1483 | |
| 16 | Nobgam | 10205002900 | Kha-5-519 | 216/415 | |
| 17 | Tshewang Dorji | 10205002868 | Kha-5-517 | 427/232 |  |
| 18 | Pasang Wangmo C/O Leela | 10205003122 10205003125 | Kha-5-535 | 408/230 | |
| 19 | Kezang Wangmo | 10205003008 | Kha-5-797 | 962 | |

| Sl.No | Name of person | Post appointed | Gender | Contact No |
|-------|----------------|----------------------|--------|------------|
| 1 | Singye Dorji | Chairman | Male | 17808306 |
| 2 | Yangma | Secretary | Male | 17607290 |
| 3 | Sonam Dorji | Accountant/Treasurer | Male | 17307698 |
| 4 | Tshewang Dorji | Resoop | Male | |
| 5 | Namgay Dorji | Resoop | Male | |

Annexure III; Stand and Stock Tables

| STAND & STOCK TABLE SHEET 1 - NUMBER OF TREES | | | | | | | | | | | | | T-Trees | | |
|---|-------|----------------------------------|-------|-------|-------|-------|-------|---------------------|-------|---------|---------|--------------------------|---------|-----------------------------------|--|
| 1. Name of CF | | Samdoen | | | | | | Production Area | | 15 Ha | | | | | |
| 2. Species Group | | | | | | | | | | | | | | | |
| 3. No of Plots | | | | | | | | Net production Area | | 13.5 Ha | | (90% of Production Area) | | | |
| 4. Block Name | | Chubchuba | | | | | | | | | | | | | |
| 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 | | | 2.86 | | | | | | | | | | 2.86 | 3.23% | |
| Betula | | | 1.43 | 4.29 | 1.43 | 1.43 | | | | | | | 8.57 | 9.68% | |
| Cinnamomum | | 1.43 | | | | | | | | | | | 1.43 | 1.61% | |
| Persea | 4.29 | 8.57 | 5.71 | | 4.29 | | 2.86 | | | | | | 25.71 | 29.03% | |
| Oak | | 1.43 | 2.86 | 1.43 | | | | | | | | | 5.71 | 6.45% | |
| Schima | | 1.43 | 2.86 | 2.86 | | | 1.43 | | | | | | 8.57 | 9.68% | |
| Other Broadl | 10.00 | 15.71 | 7.14 | 1.43 | | 1.43 | | | | | | | 35.71 | 40.32% | |
| total broadleaf | 14.29 | 28.57 | 22.86 | 10.00 | 5.71 | 2.86 | 4.29 | | | | | | 88.57 | 100.00% | |
| total all species | 14.29 | 28.57 | 22.86 | 10.00 | 5.71 | 2.86 | 4.29 | | | | | | 88.57 | 100.00% | |
| % | 0.16 | 0.32 | 0.26 | 0.11 | 0.06 | 0.03 | 0.05 | | | | | | 100.00% | | |
| AAC (Nos) | 2 | 4 | 3 | 1 | 1 | 0 | 1 | | | | | | 11 | | |

| STAND & STOCK TABLE SHEET 2 - BASAL AREA | | | | | | | | | | | | T-Trees | | | |
|--|-------|-------------------------------------|-------|-------|-------|-------|-------|---------------------|-------|---------|---------|--------------------------|---------|-----------------------------------|--|
| 1. Name of CF | | Samdoen | | | | | | Production Area | | 15 Ha | | | | | |
| 2. Species Group | | | | | | | | | | | | | | | |
| 3. No of plots | | | | | | | | Net production Area | | 13.5 Ha | | (90% of Production Area) | | | |
| 3. Name of Block | | Chubchuba | | | | | | | | | | | | | |
| 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 | | | | | | | | | | | | | | | |
| Acer | | | 0.27 | | | | | | | | | | 0.27 | 2.83% | |
| Betula | | | 0.13 | 0.67 | 0.33 | 0.47 | | | | | | | 1.60 | 17.03% | |
| Cinnamomum | | 0.07 | | | | | | | | | | | 0.07 | 0.71% | |
| Persea | 0.07 | 0.40 | 0.53 | | 1.00 | | 1.25 | | | | | | 3.25 | 34.57% | |
| Oak | | 0.07 | 0.27 | 0.22 | | | | | | | | | 0.56 | 5.91% | |
| Schima | | 0.07 | 0.27 | 0.45 | | | 0.62 | | | | | | 1.40 | 14.90% | |
| Other Broadl | 0.17 | 0.74 | 0.66 | 0.22 | | 0.47 | | | | | | | 2.26 | 24.06% | |
| total broadleaf | 0.24 | 1.34 | 2.13 | 1.56 | 1.33 | 0.93 | 1.87 | | | | | | 9.41 | 100.00% | |
| total all species | 0.24 | 1.34 | 2.13 | 1.56 | 1.33 | 0.93 | 1.87 | | | | | | 9.41 | 100.00% | |
| % | 0.03 | 0.14 | 0.23 | 0.17 | 0.14 | 0.10 | 0.20 | | | | | | 100.00% | | |

| STAND & STOCK TABLE SHEET 3 - VOLUME | | | | | | | | | | | | T-Trees | | | |
|--------------------------------------|-------|---------------------------------|-------|-------|-------|-------|-------|---------------------|-------|---------|---------|--------------------------|---------|-----------------------------------|--|
| 1. Name of CF | | Samdoen | | | | | | Production Area | | 15 Ha | | | | | |
| 2. Species Group | | | | | | | | | | | | | | | |
| 3. No of plots | | | | | | | | Net production Area | | 13.5 Ha | | (90% of Production Area) | | | |
| 3. Name of Block | | Chubchuba | | | | | | | | | | | | | |
| 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 | | | 1.97 | | | | | | | | | | 1.97 | 2.38% | |
| Betula | | | 1.10 | 6.21 | 3.42 | 5.20 | | | | | | | 15.94 | 19.24% | |
| Cinnamomum | | 0.38 | | | | | | | | | | | 0.38 | 0.45% | |
| Persea | 0.37 | 2.53 | 3.85 | | 8.79 | | 12.61 | | | | | | 28.14 | 33.97% | |
| Oak | | 0.49 | 2.37 | 2.28 | | | | | | | | | 5.14 | 6.21% | |
| Schima | | 0.46 | 2.14 | 4.07 | | | | 8.89 | | | | | 15.56 | 18.78% | |
| Other Broadl | 0.81 | 4.38 | 4.57 | 1.70 | | 4.24 | | | | | | | 15.71 | 18.96% | |
| total broadleaf | 1.18 | 8.24 | 16.00 | 14.27 | 12.21 | 9.45 | 21.50 | | | | | | 82.84 | 100.00% | |
| total all species | 1.18 | 8.24 | 16.00 | 14.27 | 12.21 | 9.45 | 21.50 | | | | | | 82.84 | 100.00% | |
| % | 0.01 | 0.10 | 0.19 | 0.17 | 0.15 | 0.11 | 0.26 | | | | | | 100.00% | | |
| AAC (m3) | 0.14 | 1.01 | 1.96 | 1.75 | 1.50 | 1.16 | 2.64 | | | | | | 10.17 | m3 | |

| STAND & STOCK TABLE SHEET 1 - NUMBER OF TREES | | | | | | | | | | | N-Trees | | | |
|---|-----------|----------------------------------|-------|-------|-------|---------------------|-------|---------|-------|--------------------------|---------|------|-----------------------------------|---------|
| 1. Name of CF | Samdoen | | | | | Production Area | | 15 Ha | | | | | | |
| 2. Species Group | | | | | | | | | | | | | | |
| 3. No of Plots | | | | | | Net production Area | | 13.5 Ha | | (90% of Production Area) | | | | |
| 4. Block Name | Chubchuba | | | | | | | | | | | | | |
| 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 | | | | | | | | | | | | | | |
| Oak | 1.43 | 1.43 | | | | | | | | | | | 2.86 | 5.26% |
| Cinnamomum | | 1.43 | 1.43 | | | | | | | | | | 2.86 | 5.26% |
| Persea | | 1.43 | | | | | | | | | | | 1.43 | 2.63% |
| Other Broadl | 5.71 | 28.57 | 10.00 | 1.43 | | 1.43 | | | | | | | 47.14 | 86.84% |
| total broadleaf | 7.14 | 32.86 | 11.43 | 1.43 | | 1.43 | | | | | | | 54.29 | 100.00% |
| total all species | 7.14 | 32.86 | 11.43 | 1.43 | | 1.43 | | | | | | | 54.29 | 100.00% |
| % | 0.13 | 0.61 | 0.21 | 0.03 | | 0.03 | | | | | | | 100.00% | |
| AAC(No.of Trees | 9 | 4 | 1 | 1 | | 1 | | | | | | | 16 | Nos |

| STAND & STOCK TABLE SHEET 2 - BASAL AREA | | | | | | | | | | | | N-Trees | | | |
|--|-------|-------------------------------------|-------|-------|-------|-------|-------|---------------------|-------|---------|---------|--------------------------|---------|-----------------------------------|--|
| 1. Name of CF | | Samdoen | | | | | | Production Area | | 15 Ha | | | | | |
| 2. Species Group | | | | | | | | | | | | | | | |
| 3. No of plots | | | | | | | | Net production Area | | 13.5 Ha | | (90% of Production Area) | | | |
| 3. Name of Block | | Chubchuba | | | | | | | | | | | | | |
| 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 | | | | | | | | | | | | | | | |
| Oak | 0.02 | 0.07 | | | | | | | | | | | 0.09 | 2.67% | |
| Cinnamomum | | 0.07 | 0.13 | | | | | | | | | | 0.20 | 5.85% | |
| Persea | | 0.07 | | | | | | | | | | | 0.07 | 1.96% | |
| Other Broadl | 0.10 | 1.34 | 0.93 | 0.22 | | 0.47 | | | | | | | 3.06 | 89.51% | |
| total broadleaf | 0.12 | 1.54 | 1.06 | 0.22 | | 0.47 | | | | | | | 3.42 | 100.00% | |
| total all species | 0.12 | 1.54 | 1.06 | 0.22 | | 0.47 | | | | | | | 3.42 | 100.00% | |
| % | 0.04 | 0.45 | 0.31 | 0.07 | | 0.14 | | | | | | | 100.00% | | |

| STAND & STOCK TABLE SHEET 3 - VOLUME | | | | | | | | | | | | N-Trees | | | |
|--------------------------------------|-------|---------------------------------|-------|-------|-------|-------|-------|---------------------|-------|---------|---------|--------------------------|---------|-----------------------------------|--|
| 1. Name of CF | | Samdoen | | | | | | Production Area | | 15 Ha | | | | | |
| 2. Species Group | | | | | | | | | | | | | | | |
| 3. No of plots | | | | | | | | Net production Area | | 13.5 Ha | | (90% of Production Area) | | | |
| 3. Name of Block | | Chubchuba | | | | | | | | | | | | | |
| 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 | | | | | | | | | | | | | | | |
| Oak | 0.13 | 0.49 | | | | | | | | | | | 0.63 | 2.70% | |
| Cinnamomum | | 0.38 | 0.96 | | | | | | | | | | 1.33 | 5.76% | |
| Persea | | 0.42 | | | | | | | | | | | 0.42 | 1.82% | |
| Other Broadl | 0.46 | 7.97 | 6.40 | 1.70 | | 4.24 | | | | | | | 20.77 | 89.72% | |
| total broadleaf | 0.60 | 9.26 | 7.35 | 1.70 | | 4.24 | | | | | | | 23.15 | 100.00% | |
| total all species | 0.60 | 9.26 | 7.35 | 1.70 | | 4.24 | | | | | | | 23.15 | 100.00% | |
| % | 0.03 | 0.40 | 0.32 | 0.07 | | 0.18 | | | | | | | 100.00% | | |
| AAC (m3) | 0.07 | 1.14 | 0.90 | 0.21 | | 0.52 | | | | | | | 2.84 | m3 | |

STAND & STOCK TABLE SHEET 1 - NUMBER OF TREES

| | | | | | | | | | | | | | | | |
|------------------------|----------------------------------|-------|-------|-------|-------|---------------------|-------|---------|-------|--------------------------|---------|------|---------|-----------------------------------|--|
| 1. Name of CF | Samdoen | | | | | Production Area | | 34 Ha | | | | | | | |
| 2. Species Group | | | | | | | | | | | | | | | |
| 3. No of Plots | | | | | | Net production Area | | 28.9 Ha | | (85% of Production Area) | | | | | |
| 4. Block Name | Kapchakay | | | | | | | | | | | | | | |
| 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 | | | | | | | | | | | | | | | |
| Oak | 0.67 | 0.67 | 0.67 | 2.67 | 2.67 | 1.33 | 0.67 | | | | | | 9.33 | 12.17% | |
| Betula | | | | 0.67 | 1.33 | 0.67 | | 0.67 | | | | | 3.33 | 4.35% | |
| Schima | 1.33 | 3.33 | 2.67 | 3.33 | 4.67 | 1.33 | 0.67 | 0.67 | 0.67 | | | | 18.67 | 24.35% | |
| Cinnamomum | 0.67 | 0.67 | 1.33 | | 0.67 | 0.67 | | | | | | | 4.00 | 5.22% | |
| Persea | 2.67 | 3.33 | 1.33 | 2.00 | 1.33 | 0.67 | 0.67 | | | | | | 12.00 | 15.65% | |
| Other Broadl | 3.33 | 2.67 | 12.00 | 6.00 | 2.67 | 2.00 | 0.67 | | | | | | 29.33 | 38.26% | |
| total broadleaf | 8.67 | 10.67 | 18.00 | 14.67 | 13.33 | 6.67 | 2.67 | 1.33 | 0.67 | | | | 76.67 | 100.00% | |
| total all species | 8.67 | 10.67 | 18.00 | 14.67 | 13.33 | 6.67 | 2.67 | 1.33 | 0.67 | | | | 76.67 | 100.00% | |
| % | 0.11 | 0.14 | 0.23 | 0.19 | 0.17 | 0.09 | 0.03 | 0.02 | 0.01 | | | | 100.00% | | |
| AAC (m3) | 2.28 | 2.80 | 4.73 | 3.85 | 3.50 | 1.75 | 0.70 | 0.35 | 0.18 | | | | 19.97 | Nos | |

STAND & STOCK TABLE SHEET 2 - BASAL AREA

| | | | | | | | | | | | | | | | |
|------------------------|-------------------------------------|-------|-------|-------|-------|-------|-------|---------------------|-------|---------|---------|--------------------------|---------|-----------------------------------|--|
| 1. Name of CF | Samdoen | | | | | | | Production Area | | 34 Ha | | | | | |
| 2. Species Group | | | | | | | | | | | | | | | |
| 3. No of plots | | | | | | | | Net production Area | | 28.9 Ha | | (85% of Production Area) | | | |
| 3. Name of Block | Kapchakay | | | | | | | | | | | | | | |
| 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 | | | | | | | | | | | | | | | |
| Oak | 0.01 | 0.03 | 0.06 | 0.42 | 0.62 | 0.44 | 0.29 | | | | | | 1.87 | 15.22% | |
| Betula | | | | 0.10 | 0.31 | 0.22 | | 0.37 | | | | | 1.01 | 8.20% | |
| Schima | 0.02 | 0.16 | 0.25 | 0.52 | 1.09 | 0.44 | 0.29 | 0.37 | 0.47 | | | | 3.60 | 29.35% | |
| Cinnamomum | 0.01 | 0.03 | 0.12 | | 0.16 | 0.22 | | | | | | | 0.54 | 4.40% | |
| Persea | 0.05 | 0.16 | 0.12 | 0.31 | 0.31 | 0.22 | 0.29 | | | | | | 1.46 | 11.87% | |
| Other Broadl | 0.06 | 0.13 | 1.12 | 0.94 | 0.62 | 0.65 | 0.29 | | | | | | 3.80 | 30.96% | |
| total broadleaf | 0.15 | 0.50 | 1.67 | 2.29 | 3.11 | 2.18 | 1.16 | 0.75 | 0.47 | | | | 12.28 | 100.00% | |
| total all species | 0.15 | 0.50 | 1.67 | 2.29 | 3.11 | 2.18 | 1.16 | 0.75 | 0.47 | | | | 12.28 | 100.00% | |
| % | 0.01 | 0.04 | 0.14 | 0.19 | 0.25 | 0.18 | 0.09 | 0.06 | 0.04 | | | | 100.00% | | |

STAND & STOCK TABLE SHEET 3 - VOLUME

| | | | | | | | | | | | | | | | |
|------------------------|---------------------------------|-------|-------|-------|-------|-------|-------|---------------------|---------|---------|--------------------------|------|---------|-----------------------------------|--|
| 1. Name of CF | Samdoen | | | | | | | Production Area | 34 Ha | | | | | | |
| 2. Species Group | | | | | | | | | | | | | | | |
| 3. No of plots | | | | | | | | Net production Area | 28.9 Ha | | (85% of Production Area) | | | | |
| 3. Name of Block | Kapchakay | | | | | | | | | | | | | | |
| 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 | | | | | | | | | | | | | | | |
| Oak | 0.06 | 0.23 | 0.55 | 4.26 | 7.21 | 5.59 | 4.07 | | | | | | 21.99 | 17.77% | |
| Betula | | | | 0.97 | 3.19 | 2.43 | | 4.76 | | | | | 11.35 | 9.18% | |
| Schima | 0.12 | 1.06 | 2.00 | 4.75 | 11.11 | 4.87 | 4.15 | 6.45 | 8.34 | | | | 42.85 | 34.63% | |
| Cinnamomum | 0.04 | 0.18 | 0.89 | | 1.58 | 2.67 | | | | | | | 5.36 | 4.33% | |
| Persea | 0.23 | 0.98 | 0.90 | 2.50 | 2.73 | 2.07 | 2.94 | | | | | | 12.35 | 9.98% | |
| Other Broadl | 0.27 | 0.74 | 7.67 | 7.15 | 5.23 | 5.94 | 2.83 | | | | | | 29.83 | 24.11% | |
| total broadleaf | 0.72 | 3.20 | 12.02 | 19.62 | 31.06 | 23.56 | 13.99 | 11.21 | 8.34 | | | | 123.72 | 100.00% | |
| total all species | 0.72 | 3.20 | 12.02 | 19.62 | 31.06 | 23.56 | 13.99 | 11.21 | 8.34 | | | | 123.72 | 100.00% | |
| % | 0.01 | 0.03 | 0.10 | 0.16 | 0.25 | 0.19 | 0.11 | 0.09 | 0.07 | | | | 100.00% | | |
| AAC (m3) | 0.19 | 0.84 | 3.16 | 5.16 | 8.16 | 6.19 | 3.68 | 2.95 | 2.19 | | | | 30.32 | m3 | |

STAND & STOCK TABLE SHEET 1 - NUMBER OF TREES

N-Trees

| | | | | | | | | | | | | | | | |
|---|-----------|-------|-------|-------|-------|-----------------------|-------|---------|-------|--------------------------|---------|------|---------|-----------------------------------|--|
| 1. Name of CF | Samdoen | | | | | Production Area 34 Ha | | | | | | | | | |
| 2. Species Group | | | | | | | | | | | | | | | |
| 3. No of Plots | | | | | | Net production | | 28.9 Ha | | (85% of Production Area) | | | | | |
| 4. Block Name | Kapchakay | | | | | | | | | | | | | | |
| 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 | | | | | | | | | | | | | | | |
| Oak | 1.33 | 2.00 | | | | | | | | | | | 3.33 | 2.72% | |
| Cinnamomum | 5.33 | 1.33 | 1.33 | | | | | | | | | | 8.00 | 6.52% | |
| Persea | | 0.67 | 0.67 | | 1.33 | | | | | | | | 2.67 | 2.17% | |
| Schima | 1.33 | 0.67 | | | | | | | | | | | 2.00 | 1.63% | |
| Beilschimedia | | 0.67 | 1.33 | | | | | | | | | | 2.00 | 1.63% | |
| Other Broadl | 34.67 | 27.33 | 27.33 | 10.67 | 1.33 | 2.67 | | 0.67 | | | | | 104.67 | 85.33% | |
| total broadleaf | 42.67 | 32.67 | 30.67 | 10.67 | 2.67 | 2.67 | | 0.67 | | | | | 122.67 | 100.00% | |
| total all species | 42.67 | 32.67 | 30.67 | 10.67 | 2.67 | 2.67 | | 0.67 | | | | | 122.67 | 100.00% | |
| % | 0.35 | 0.27 | 0.25 | 0.09 | 0.02 | 0.02 | | 0.01 | | | | | 100.00% | | |
| AAC (Nos) | 11 | 9 | 8 | 3 | 1 | 1 | | 0 | | | | | 32 | Nos | |

STAND & STOCK TABLE SHEET 2 - BASAL AREA

| | | | | | | | | | | | | | | | |
|------------------------|-------------------------------------|-------|-------|-------|-------|---------------------|-------|---------|-------|--------------------------|---------|------|---------|-----------------------------------|--|
| 1. Name of CF | Samdoen | | | | | Production Area | | 34 Ha | | | | | | | |
| 2. Species Group | | | | | | | | | | | | | | | |
| 3. No of plots | | | | | | Net production Area | | 28.9 Ha | | (85% of Production Area) | | | | | |
| 3. Name of Block | Kapchakay | | | | | | | | | | | | | | |
| 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 | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| Oak | 0.02 | 0.09 | | | | | | | | | | | 0.12 | 1.35% | |
| Cinnamomum | 0.09 | 0.06 | 0.12 | | | | | | | | | | 0.28 | 3.21% | |
| Persea | | 0.03 | 0.06 | | 0.31 | | | | | | | | 0.40 | 4.67% | |
| Schima | 0.02 | 0.03 | | | | | | | | | | | 0.05 | 0.62% | |
| Beilschimedia | | 0.03 | 0.12 | | | | | | | | | | 0.16 | 1.80% | |
| Other Broadl | 0.59 | 1.28 | 2.54 | 1.66 | 0.31 | 0.87 | | 0.37 | | | | | 7.64 | 88.35% | |
| total broadleaf | 0.73 | 1.54 | 2.85 | 1.66 | 0.62 | 0.87 | | 0.37 | | | | | 8.64 | 100.00% | |
| total all species | 0.73 | 1.54 | 2.85 | 1.66 | 0.62 | 0.87 | | 0.37 | | | | | 8.64 | 100.00% | |
| % | 0.08 | 0.18 | 0.33 | 0.19 | 0.07 | 0.10 | | 0.04 | | | | | 100.00% | | |

STAND & STOCK TABLE SHEET 3 - VOLUME

| | | | | | | | | | | | | | | | | |
|------------------------|---------|-------|-------|-------|-------|---------------------------------|-----------------|---------|-------|--------------------------|---------|------|---------|---------|-----------------------------------|--|
| 1. Name of CF | Samdoen | | | | | | Production Area | | 34 Ha | | | | | | | |
| 2. Species Group | | | | | | | | | | | | | | | | |
| 3. No of plots | | | | | | Net production Area | | 28.9 Ha | | (85% of Production Area) | | | | | | |
| 3. Name of Block | | | | | | Kapchakay | | | | | | | | | | |
| 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 | | | | | | | | | | | | | | | | |
| Oak | 0.12 | 0.69 | | | | | | | | | | | 0.81 | 1.31% | | |
| Cinnamomum | 0.35 | 0.35 | 0.89 | | | | | | | | | | 1.59 | 2.56% | | |
| Persea | | 0.20 | 0.45 | | 2.73 | | | | | | | | 3.38 | 5.43% | | |
| Schima | 0.12 | 0.21 | | | | | | | | | | | 0.33 | 0.53% | | |
| Beilschimedia | | 0.20 | 0.95 | | | | | | | | | | 1.16 | 1.85% | | |
| Other Broadl | 2.81 | 7.63 | 17.48 | 12.70 | 2.61 | 7.92 | | 3.86 | | | | | 55.01 | 88.32% | | |
| total broadleaf | 3.40 | 9.28 | 19.77 | 12.70 | 5.35 | 7.92 | | 3.86 | | | | | 62.28 | 100.00% | | |
| | | | | | | | | | | | | | | | | |
| total all species | 3.40 | 9.28 | 19.77 | 12.70 | 5.35 | 7.92 | | 3.86 | | | | | 62.28 | 100.00% | | |
| % | 0.05 | 0.15 | 0.32 | 0.20 | 0.09 | 0.13 | | 0.06 | | | | | 100.00% | | | |
| AAC (m3) | 0.89 | 2.44 | 5.20 | 3.34 | 1.41 | 2.08 | | 1.01 | | | | | 16.36 | m3 | | |

Annexure IV: CFMG new membership application form

To

The Chairperson,

_____ CF

I would like to join your CF starting from _____. I hereby furnish my details as mentioned below:

Part A: Applicant information

Name of Household representative: CID No: Village/Chiwog
 Gewog: Gung No.:
 Thram No.:

Details of timber availed from SRF

| Standing form | Quantity (Nos.) | Year of allotment | Purpose for which timber was allotted | Remarks |
|-----------------|-----------------|-------------------|---------------------------------------|---------|
| Drashing | | | | |
| Cham | | | | |
| Tsim | | | | |
| Log form (cft.) | | | | |

Date of submission:

Signature & Name of the Applicant

Affix legal stamp

The details given above are true to the best of my knowledge. From the date of joining as new member in the CFMG I shall abide with the CFMG by-laws.

Part B: Endorsement by CF Management Committee (The membership shall be accepted and registered after paying the membership fee and compensation, if any)

Signature & Date.....

Signature & Date

Signature & Date

Name

Name

.....

Name.....

Official seal

Official Seal

Chairperson

Secretary

Treasurer

Copy to: Concerned Forestry Officer Date of registration:

Serial No.

Annexure V: CFMG membership resignation application form

To

The Chairperson

_____ CF

I would like to resign from the CFMG starting from _____. I hereby furnish my details as mentioned below:

Part A: To be filled by the Applicant

Name of Household representative:CID No:

.....Village/Chiwog:Gewog:

..... Gung No: Thram:

Reason of withdrawal from CF membership:

Details of timber availed from CF during my membership in CFMG is as follows:

| Standing form | Quantity (Nos.) | Year of allotment | Purpose for which timber was allotted | Remarks |
|-----------------|--------------------|----------------------|--|---------|
| Drashing | | | | |
| Cham | | | | |
| Tsim | | | | |
| Log form (cft.) | | | | |

Date of submission:

Signature & Name of the Applicant

Part B: To be filled up by CFMC members

Date of application received:

The details of the applicant and his/her reason of withdrawal from CFMG have been checked and found genuine and all the information provided is found to be correct.

We hereby recommend for resignation from CFMG membership of the applicant as per his request after clearing any dues with the CFMG.

Verified and approved by CF Management Committee:

Signature & Date.....

Signature & Date

Signature & Date

Name

Name

Name.....

Official seal

Official Seal

Official Seal

Chairperson

Secretary

Treasurer

Copy to: Concerned Forestry Officer Date of resignation: Serial No.
.....

Annexure VI: Loan application for CFMG members

ANNEX 9: LOANS APPLICATION FOR CFMG MEMBERS

Loan Application Form གློག་འཕུར་ཁུ་ཕིག་ཕིག་ཤོག་ Date གཞི་རྒྱུ་:

Name མི་: Village ཁུར་:

Gung No. རྒྱུ་མཚན་: Thram No. ཐུ་མཚན་:

CID No. རྒྱུ་ཕྱིན་ལཱ་ཁུ་: Mobile No. རྒྱུ་ལ་ཕྱིན་མཚན་:

Amount Applied Nu: རྒྱུ་ཕྱིན་པའི་རྒྱ་ཆེ་ (in words རྒྱུ་ཕྱིན་པའི་རྒྱ་ཆེ་)

Purpose རྒྱུ་ཕྱིན་པའི་རྒྱ་ཆེ་:

Mortgage རྒྱུ་ཕྱིན་པའི་རྒྱ་ཆེ་ (apartment)

| | |
|----------|-----------------------------|
| a) རྒྱུ་ | Total value of mortgage (s) |
| b) རྒྱུ་ | ཕྱིན་པའི་རྒྱ་ཆེ་པའི་རྒྱ་ཆེ་ |
| c) རྒྱུ་ | |

Third Party Guaranty (if any): རྒྱུ་ཕྱིན་པའི་རྒྱ་ཆེ་པའི་རྒྱ་ཆེ་པའི་རྒྱ་ཆེ་

| | |
|--|--|
| Name, CID No, M. No. Thram No. Gung No. མི་, རྒྱུ་ཕྱིན་ལཱ་ཁུ་, རྒྱུ་ལ་ཕྱིན་མཚན་, ཐུ་མཚན་, རྒྱུ་མཚན་ | Signature and Date མི་, རྒྱུ་ཕྱིན་པའི་རྒྱ་ཆེ་ |
|--|--|

Signature and Date of Applicant with legal stamp:

མི་, རྒྱུ་ཕྱིན་པའི་རྒྱ་ཆེ་པའི་རྒྱ་ཆེ་པའི་རྒྱ་ཆེ་

Sanctioned by: རྒྱུ་ཕྱིན་པའི་རྒྱ་ཆེ་

Treasurer

མི་, རྒྱུ་

Secretary

མི་, རྒྱུ་

Chairperson

མི་, རྒྱུ་

Annexure VII: Loan Agreement for CFMG members

Community Forest Management Group's Loan Agreement (translated version is also below this annex)

This loan agreement is executed between Mr..... CID no..... from.....Village,.....Gewog,.....Dzongkhag, who is a Community Forest User Group Member, hereinafter referred to as the "Borrower" and.....Community Forest Management Group, located at Gewog,Dzongkhag, who is duly represented by the Chairperson and Treasurer, hereinafter referred to as "Lender" and jointly referred to as "Parties".

NOW THEREFORE, The Parties have agreed to the following terms and conditions:

That the Lender have promised to pay the Borrower a sum of Nu..... (Ngultrum.....) only at an annual interest rate of % for the period ofyears.

That the loan amount and interest amount payable are as calculated below:

Details of loan:

Loan Amount : Nu.

Interest rate : %

Loan duration : years

Interest amount : Nu.

Total amount payable : Nu.

(Principal amount plus interest amount)

Repayment of the loan:

The Borrower shall repay the loan amount along with the interest amounting to Nu..... per year or upon the completion of loan term.

Mortgage

As a security for the repayment of loan and the interest thereon, the "Lender" hereby conveys the as mortgage in favour of the "Borrower". The schedule of property is as described below:

Name:.....

Plot no/Model no/Make:.....

Estimated value on the day of mortgaging:

Guarantor's liability:

In the event, the borrower for any reason is not able to make payment on time, the liability to repay the unpaid amount of loan along with the interest accrued thereof shall be with the guarantor.

Penalty on default of payment:

The "Lender" shall be liable for the penalty of % per year on the failure to repay the loan amount along with the interest as per the terms and conditions specified in this agreement. In the event the "Lender is not able repay the loan amount, the burden shall be on the "Guarantor", if any

or the “Borrower” shall realise the loan amount through the disposal of mortgaged property upon following a due process of law.

Done on.....day ofmonth at

For Borrower:

For Lender:

Chairperson’s signature

Signature

Treasurer’s signature

Guarantor’s signature

CID #

Contact #

Annexure VIII: Application form for forest produce from CF for rural use

Part A – To be filled in by the Applicant/member

- a. Name of applicant:
- b. Citizenship I.D. no: c. Village:
- d. Gung No: e. Thram No:
- f. Details of timber availed from SRF/CF If yes, please provide details of the timber allotted as follows:

| Standing form | Quantity (Nos.) | Year allotment | Purpose for which timber was allotted | Remarks |
|-----------------|-----------------|----------------|---------------------------------------|---------|
| Drashing | | | | |
| Cham | | | | |
| Tsim | | | | |
| Log form (cft.) | | | | |

- g. Details of following timber applied for the purpose

| Products | Quantity (Nos.) | Volume (cft) | Remarks |
|--------------------|-----------------|--------------|---------|
| Drashing | | | |
| Cham | | | |
| Tsim | | | |
| Dangchung/ Flag | | | |
| Firewood | | | |
| Sand | | | |
| Stones | | | |
| NWFPs (specify) | | | |
| Others | | | |

- h. Purpose.....

Note: An applicant can avail timber as per the FNCRR, 2017 once in 25 years for new construction and 12 years for renovation which will be calculated from previous timber allotments from SRF/CF. k. Copy of construction approval attached:

I hereby certify that the details given above are true to the best of my knowledge. In case of any false or wrong information, I am liable to be penalized under the Forest & Nature Conservation Act 1995 and the Rules and Regulations made there under.

Signature of applicant with legal stamp affixed

Date.....

PART B: To be filled up by the CF Management Committee Construction approval no:

..... dated

We hereby certify that:

- i) We have verified the details of the applicant and found to be true and correct
- ii) ii) Timber requirement is genuine
- iii) iii) The details of the applicant and quantity of timber/other forest products applied for rural use have been verified with the records maintained by the CFMG and found to be correct.

We hereby Approve/Reject the application for allotting timber/other forest products to the applicant from CF Reasons for rejection:

.....
.....
.....
.....

1. Name & Signature of Chairperson & Date
2. Name & Signature of Secretary & Date
3. Name & Signature of Treasurer & Date

Annexure IX: Handing taking charge note for CFMG

I/we Mr.
 Chairperson/Secretary/Treasurer, of
 Community
 Forest Management Group, Gewog,
 Dzongkhag after rendering years of service is resigning with the permission from
 CFMG members as decided or approved during the CFMG meeting conducted on

Therefore, the undersigned hereby handed over the complete charge of the
 CF to new CF
 Management Committee members
 (Chairperson/Secretary/Treasurer) on dated

The charge lists are as attached below:

I. CFMG fund status on handing taking over day

1. Cash in hand (Nu.):
2. Bank balance (Nu.):
3. Loan (Nu.):
4. Total CFMG fund (Nu.):

II. Record Keeping Books/Registers and files

| Sl. No. | List of books/register | Quantity | Used for year | Remarks |
|---------|------------------------|----------|---------------|---------|
| | | | | |
| | | | | |

III. List of Tools, Equipment & furniture

| Sl. No. | Detail of items | Quantity | Acquired/Transferred from | Remarks |
|---------|-----------------|----------|---------------------------|---------|
| | | | | |
| | | | | |
| | | | | |

IV. Others (mention if any)

Handed over by

Taken Over By

In Presence of