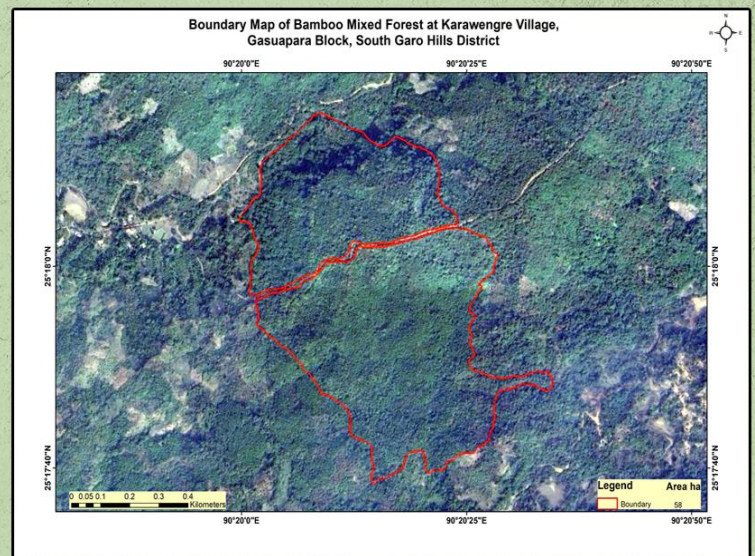


Bamboo Forest Management Plan for Karawengre Village South Garo Hills District, Meghalaya

(in partial fulfillment of the application for FSC Forest Management Certification)



prepared by Karawengre BFMC with the assistance from

**Centre of Excellence
for**

Natural Resource Management & Sustainable Livelihoods

**Meghalaya Basin Development Authority (MBDA)
Government of Meghalaya**

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ABBREVIATIONS & ACRONYMS

BFMC	Bamboo Forest Management Committee
CoE (NRM&SL)	Centre of Excellence for Natural Resources Management And Sustainable Livelihoods
CF	Clump Forming
DFO	Divisional Forest Officer
FM	Forest Management
FSC	Forest Stewardship Council
GIS	Geographic Information System
GPS	Global Positioning System
ha	hectare
HCV	High Conservation Value
MBDA	Meghalaya Basin Management Agency
NCF	Non-Clump Forming
NTFP	Non-Timber Forest Product
PCCF	Principal Chief Conservator of Forests
PPS	Probability Proportional to Size
RFSS	Regional Forest Stewardship Standard
RMU	Resource Management Unit
SHG	Self-Help Groups
VBMC	Village Bamboo Management Committee
VCF	Village Community Facilitators
WP Act	Wildlife Protection Act

Bamboo Forest Management Plan for Karawengre Village, South Garo Hills District, Meghalaya

1. Introduction

Karawengre is a small Garo village situated in the western part of the South Garo Hills District of Meghalaya, with a close-knit community that depends largely on bamboo, farming, and small-scale forest resources for their livelihoods. The people of the village follow traditional customary practices under the village council headed by the Nokma, which plays a central role in decision-making, resource management, and conflict resolution. The community values cooperation, sustainability, and cultural traditions, and women play an active role in households as well as in community groups such as Self-Help Groups (SHGs). Bamboo is especially important, not only as an economic resource but also for housing, farming practices and cultural activities.

1.1. Location Map

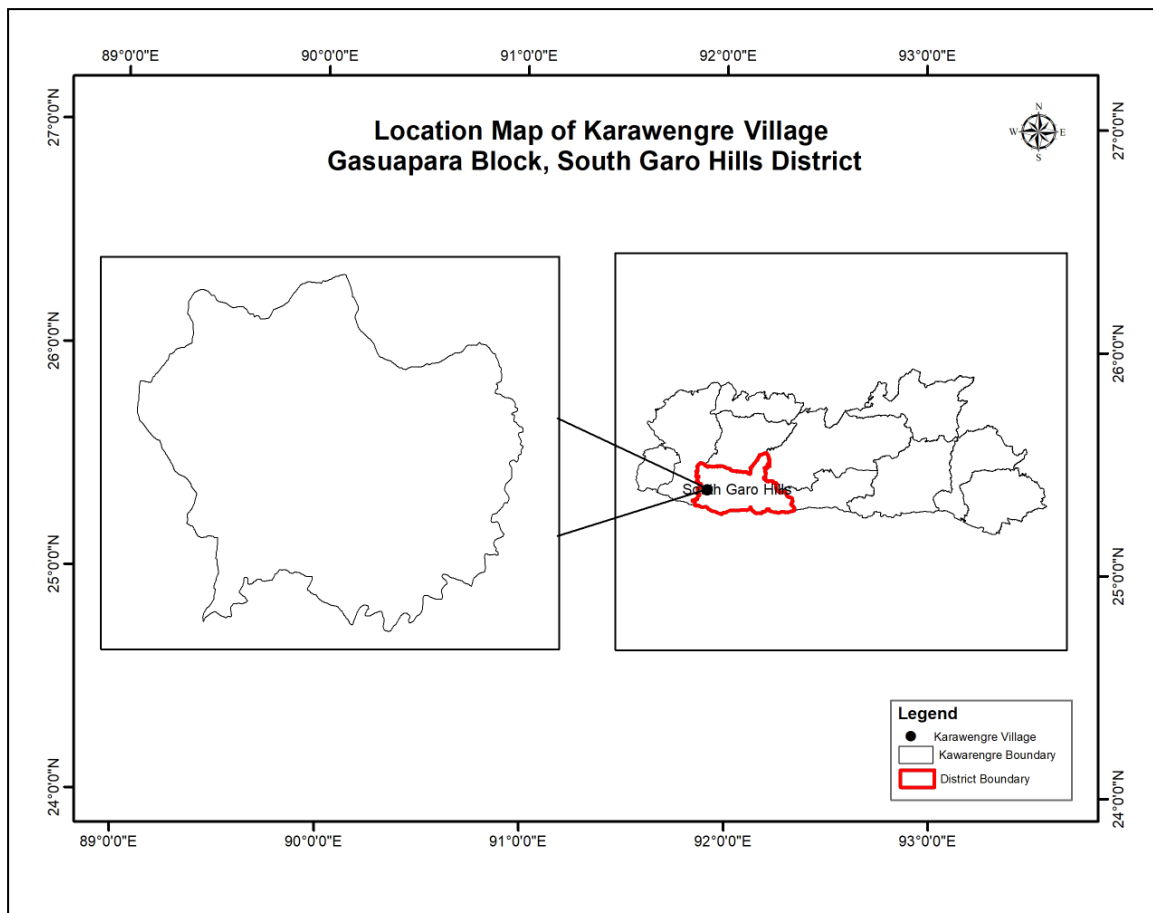


Figure 1: Location map of Karawengre village

1.2. Scope of Bamboo Forest Management Plan

This manual describes the management system for the Bamboo Forests under the Karawengre Village Council (Nokma), which adheres to the principles laid down under the RFSS standards of FSC (Annexure I).

The applicable standards upon which this management plan is based are -

- FSC-STD-30-005 V2-0 FM Groups Standard
- FSC-STD-IND-RAP-V1.0-2022_Small Holder_ Plantations EN_ The FSC Forest Stewardship Standard for Smallholders in India
- FSC-STD-50-001 V2-1 EN Requirements for use of the FSC trademarks

This manual is a controlled document, owned by the Karawengre Village Council.

1.3. Demography

The total population in Karawengre is 181. Out of this, 101 are males while the female count is 80. The female literacy rate in the village is 55%, whereas the male literacy rate is 67%. The overall literacy rate stands at 61%.

Table 1: Demography

Demography of Population	Number
Number of Female	80
Number of Male	101
Total Population	181
Total Number of Households	26

Literacy Category	Literacy percent (%)
Female Literacy Rate	55%
Male Literacy Rate	67%
Overall Literacy Rate	61%

Source: MegLIFE, Gasuapara Block

1.4. Tribes

The people of Karawengre belong to the Garo tribe, one of the major indigenous tribes of Meghalaya. The Garo community follows a matrilineal system, where family lineage and inheritance pass through the mother's line. Traditional governance is exercised through the Nokma (Head of Village Council), which manages community affairs, land resources, including forests and conflict resolution. The tribe maintains a close relationship with nature, and bamboo plays an important role in their livelihood, culture, and daily life (Annexure II & III).

2. Forest cover in the village

The total geographical area of the village is 413 ha which comprise 115.72 ha of forest cover. The forest in the village supports diverse plant and animal life. The forest in the village has a patch of 58 ha which is rich in bamboo species. In addition to bamboo, the forest contains

a wide variety of indigenous tree species, such as *Macaranga denticulata*, *Bombax ceiba*, *Tectona grandis* and *Schima wallichii* and a few of the other tree species. It further supports several wildlife species, including the porcupine, civet cat. The village council has decided to apply for FSC Forest Management Certification for the bamboo forest with an extent of 58 ha. This combination of bamboo, trees and wildlife highlights the ecological richness and biodiversity value of the village forest.

There are pure patches of bamboo as well as bamboo that occurs in interspersed manner along with other tree species. The bamboo species in the forests include *Dendrocalamus hamiltonii*, *Gigantochloa macrostachya*, *Ochlandra scriptoria*, *Bambusa tulda* and *Melocanna baccifera*.

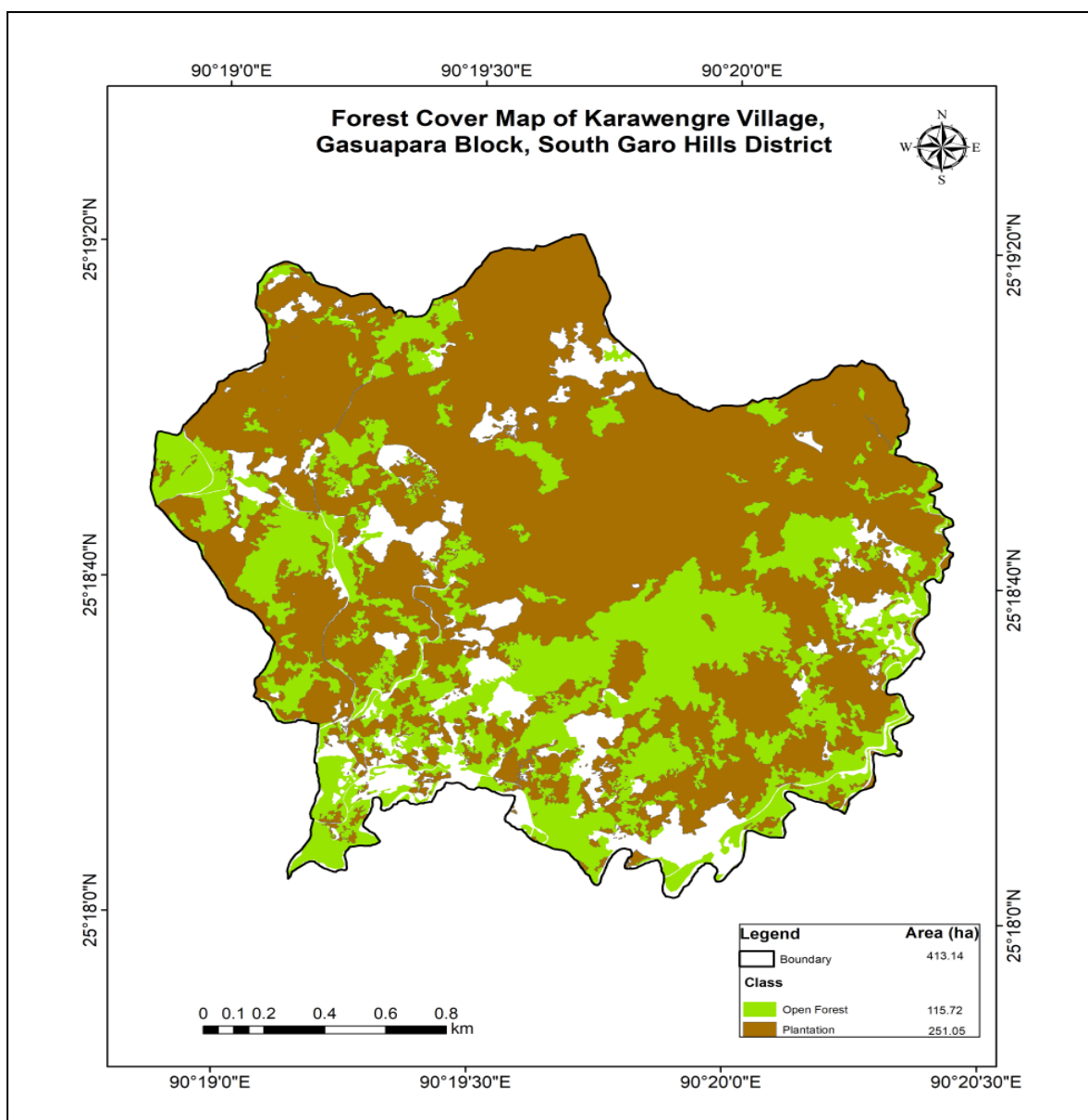


Figure 2: Forest cover map of Karawengre village

3. Bamboo Forest in Karawengre Village and it's management

3.1. Bamboo Resource Inventory

The bamboo inventory in Karawengre village was conducted to assess the available bamboo resources and inform sustainable harvesting plans. The process began with the identification of bamboo forest boundaries by Village Community Facilitators (VCFs), followed by the preparation of GIS-based maps. Using a stratified random sampling method and Probability Proportional to Size (PPS) approach, 30m x 30m sample plots were established across bamboo-dense areas. Trained VCFs collected data from these plots, including the number of clumps and culms, culm age and diameter, species identification, and green biomass measurements. Only mature culms (typically 3 - 4 years old) were considered for sustainable harvest estimates. The collected data was validated and analyzed by district and state-level teams to determine the sustainably harvestable yield and prepare a village-level bamboo resource inventory. This inventory forms the scientific basis for the management and harvesting guidelines outlined in the forest management plan (Annexure IV). This data will guide sustainable harvesting and ongoing management.

Table 2: Bamboo Resource Inventory Results

Sl. No.	Name of Bamboo Species	Estimated Number of Culms	Green Weight (in tonnes)	Dry Weight (in tonnes)
1	<i>Dendrocalamus hamiltonii</i>	3019	50	26
2	<i>Gigantochloa macrostachya</i>	9989	197	95
3	<i>Ochlandra scriptoria</i>	2247	32	13
4	<i>Bambusa tulda</i>	57108	668	321
	Subtotal of CF (A)	72363	947	455
5	<i>Melocanna baccifera</i>	379750	2616	1020
	Subtotal of NCF (B)	379750	2616	1020
	Total (A+B)	452113	3562	1475

3.1.1. Clump density in the forest

Table 3: Clump density in the forest

1	Estimated number of clumps in the forest	2524
2	Number of clumps per ha	44
3	Average size of clumps (Sq. m)	7.55
4	Average spacing between the clumps (m)	15.16

As evident from the above tables the clump density per hectare is low (only 44 per ha). Therefore, there is a scope for planting more bamboo seedlings in the inter clump spaces, for improving the stocking and overall yield. It is proposed that the number of clumps in the forest will be increased by 9076 in the next 3 years by planting approximately 3025 bamboo seedlings per year. Clump density after improved stocking will then rise to nearly 200 clumps per hectare.

3.1.2. Sustainably Harvestable Bamboo

Based on bamboo resource inventory data, the quantity of harvestable bamboo is estimated by considering the maturity of culms, the harvesting cycle and conservation factor taking into account uncertainty in the future yield. As given in the table above, the quantity of sustainably harvestable bamboo from the bamboo forest of Karawengre Village is 712 tonnes per year. Normally, 3 - 4 years old culms are selected for harvest to ensure sustainability and regeneration. Estimation of sustainably harvestable yield has been done taking harvesting cycle as 4 years. A conservation factor of 0.8 has also been used to make all allowance for unforeseen events like fire, damage due to storms etc.

Table 4: Sustainably harvestable yield

Current Harvestable yield (annually)	712 tonnes per year
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Table 5: Projected sustainable harvestable yield after the improved stocking

Harvestable Yield (Calculated after planting of 200 seedlings per ha to increase stocking)	3274 tonnes per year
--------------------------------------------------------------------------------------------	----------------------

3.1.3. Silvicultural System

The silvicultural system for bamboo in Karawengre follows a clump management approach focused on selective culm harvesting to promote healthy regeneration. Only mature culms (3–4 years old) are harvested, retaining younger ones to support growth. The horse-shoe method has been prescribed for the extraction of culms which also ensures regular cleaning of dead or congested culms and thus ensures clump vitality. This system enhances natural regeneration, improves yield, and supports long-term sustainability aligned with the FSC standards.

3.1.4. Guidelines for Harvesting of Bamboo

Species such as *Dendrocalamus hamiltonii*, *Melocanna baccifera* are monitored for density, and culm condition. Only 3-4 years old culms are harvested for sustainability.

- (i) Harvesting must follow the "Horse-shoe" method, starting from the inner part of the clump and moving outward as depicted in Fig. 3.
- (ii) Only mature culms (3 - 4 years old) should be harvested; younger culms and those under 4 cm in diameter should be retained.
- (iii) Retain at least 6 culms per clump for regeneration, and avoid removing more than 50% of culms in one go.
- (iv) Diseased or drying culms must be removed to prevent fire hazard.
- (v) Culms must be cut low from the ground just above the first node (30 cm above ground) to avoid rot.
- (vi) Cutting around the periphery is discouraged to prevent imbalance in clump growth.
- (vii) Use sharp tools, and consider introducing thin-bladed saws for clean cuts.
- (viii) Avoid harvesting during the rainy season to protect emerging shoots.

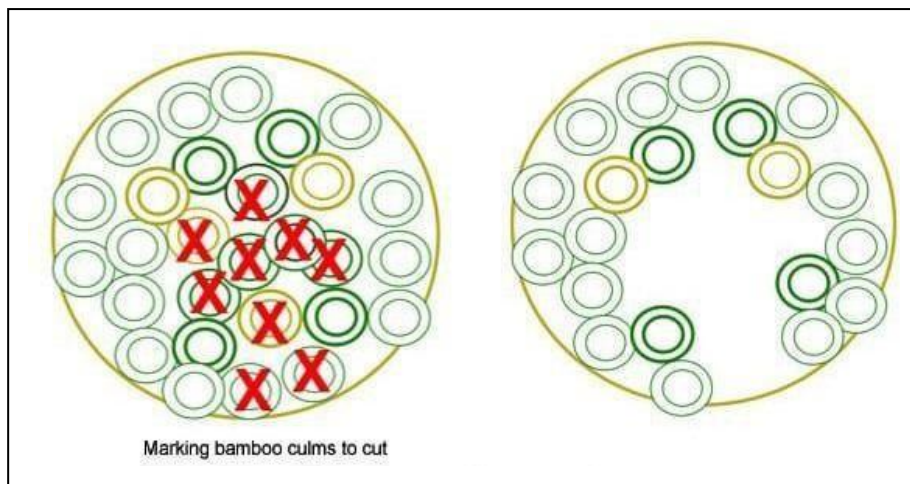


Figure 3: Horse-shoe system of harvesting

- (ix) While harvesting the culms, the persons engaged in the task should use appropriate protective gears like helmet, thick rubber gloves, gumboots etc.
- (x) Care should be taken while extracting culms in such a way that rhizome structure is not damaged.

This method involves cutting select culms in a semi-circular pattern within the clump while retaining support culms on the periphery, ensuring structural balance and regeneration support (Annexure V).

3.2. Other Management Prescriptions

- (i) Community members will maintain a record of bamboo harvesting done from the forest in a Bamboo control form given at the Annexure VI.
- (ii) When bamboo is harvested, care should be taken that the cut and bundled culms

are removed in such a manner that the extraction process does not cause any damage to the soil and biodiversity. The culms should preferably be removed by carrying manually on shoulder or using small wheeled carts.

- (iii) The progress of the implementation of the Bamboo Forest Management Plan will be monitored in terms of the following parameters.

Sl. No.	Parameters/Observation	Periodicity
a.	Occurrence of forest fire	six monthly
b.	Number of culms harvested	quarterly
c.	Number of bamboo seedling planted	six monthly
d.	Weeding/cleaning carried out in the forest	six monthly

- (iv) For the purpose of adaptive management observations on certain parameters will be recorded.

Sl. No.	Parameters/Observation	Periodicity
a.	Any pathological infestation	six monthly
b.	Any entomological infestation	six monthly
c.	Premature dying/splitting of bamboo culms	quarterly

- (v) The resource inventory information presented in the section 3.1 shows that clump density in the forest is 44 per hectare only which is low. To improve the stocking of bamboo in the forest, it is proposed to carry out planting of bamboo seedlings of species like *Bambusa tulda*, *Melocanna baccifera* and *Dendrocalamus hamiltonii* in the inter-clump spacing. It is proposed to plant 9076 bamboo seedlings in the next 3 years.
- (vi) It is prescribed that genetically modified planting material will not be used for the enrichment planting.
- (vii) Use of chemical fertilizers should be avoided. In the rare circumstances even if it has to be used, only the bare minimum quantity of any chemical fertilizers should be used.
- (viii) However organic fertilizers and bio-pesticides maybe used in the plantations/ forest as and when required.
- (ix) Use of Biological Control Agents should be avoided. In the rare circumstances even if it has to be used, only the bare minimum quantity of any biological control agents should be used.
- (x) Only native species of bamboo will be planted for regeneration and improving standing of the bamboo clumps (Annexure VII & VIII).

3.3. Bamboo Forest Health

Regular observations will be undertaken to detect any insect or fungal infection on the bamboo clumps. In case such infections are noticed spray of suitable insecticides /fungicides preferably the herbal preparations will be done and affected culm will be removed. The BFMC should contact nearest Forest Department Office for appropriate treatment of the disease, BFMC members may also contact DFO, Silviculture Division, in Shillong for this purpose.

3.4. Invasive Species

Invasive species have a tendency to encroach bamboo forest lands and by doing so they suppress growth and regeneration of the native species in early stages. Spread of invasive species is damaging to Bamboo Forest and biodiversity. Dried biomass of invasive species becomes fire hazard. The BFMC therefore will organize drives for eradication of such invasive plants by uprooting or cutting them by involving community members at least twice in a year. The invasive species present in the area are *Chromolaena odorata*, *Mikania micrantha*, *Bidens pilosa*, *Ageratum conyzoides*, *Lantana camara*.

3.5. Soil

The bamboo plantation area in Karawengre village has loamy soil, which is well-drained, moderately fertile, and suitable for bamboo growth. To maintain soil health, organic matter will be added regularly, mulching will be practiced to retain moisture, and erosion control measures such as contour planting will be applied on slopes. Periodic soil monitoring will guide nutrient management to ensure sustainable bamboo production.

3.6. Water Quality / Riparian Habitat

Two perennial springs (Sokjola and Poroti) are available within the bamboo forest area. These springs provide a reliable year-round water source for bamboo maintenance and nursery activities. Water quality is generally good, with clear flow and no visible signs of contamination. Regular monitoring is recommended to ensure continued quality and sustainability. The BFMC will take all measures to protect existing water bodies within the forest. It will also ensure that riparian zones are well protected within the forest (if any) or in the vicinity. Care will be taken not to disturb course of water in the streams and rivers passing through the community forest (Annexure VIII). On 30 meters of either side of the rivers/ streams, the group member will ensure that the vegetation in any form is not uprooted or damaged. The group member will also ensure that the bank of the rivers/ streams are not eroded. Drainage map of Karawengre village can be found in Fig. 6.

3.7. Biodiversity

BFMC members will ensure that the existing biodiversity in the forest is fully protected. (Annexure IX). Special care will be taken of rare, endangered and threatened plants.

Areas where such plants are growing will be delineated by way of small bamboo fencing. The BFMC will also ensure that no damage is done to the native ecosystem by any practice prescribed for bamboo management (Annexure VII & VIII). It is worth mentioning that there is no high conservation value (HCV) forest within or in the vicinity of the village.

3.8. Wildlife Habitat

Only stray incidents of small animals like foxes and civet cats are reported. The bamboo forest otherwise does not have other wild animals. Among the bird species, the common ones found in the forest are kalij pheasant, laughing thrush, swiftlet, bulbul. It is recommended that all the wildlife species as scheduled under the Wildlife (Protection) Act, 1972, should be preserved. Being protected under the law, killing and harming them is a punishable offence under the WP Act, 1972. It should be the collective responsibility of the villagers under the watch of the BFMC (Bamboo Forest Management Committee) members to monitor all wildlife species including birds, reptiles, mammals. In case BFMC comes to know about any person having committed any offence by killing or harming the wild animals, then it is the duty of the BFMC to immediately report the matter to the nearest Forest Department official. The BFMC should be particularly watchful for the hunters/poachers from outside the village. Contact numbers of the concerned F&E Department officials are given in the table below:

Table 6: Contact details of Wildlife Officials

Designation	Contact Number	Email ID
PCCF (Biodiversity & Wildlife) & Chief Wildlife Warden, Shillong	0364-2227311 (F), 0364-2226460	wildlifeinfoeghlt@yahoo.com pccfmegh@gmail.com
Divisional Forest Officer, Wildlife	03651-295558	bnpwildlife@gmail.com

3.9. High Conservation Value (HCV)

There are no High Conservation Value (HCV) species (floral and faunal) or features in the management area in the village. Absence of HCV has been confirmed by the following processes:

- After carrying out mapping of the area using satellite imagery, the sample plot-based observations were taken in a scientific manner. While doing the sampling-based observation, no HCV was observed.
- A consultation was held with the village community members and also the concerned Forest Department Officials and District Council Forest Official, specifically enquiring about HCV plants or animal species or any other features of conservation significance. The consultation revealed that there is no HCV in the area.

- To confirm it further, a transect survey was also done in the forest, village and vicinity along with the community members.
- The literature survey has also not indicated the presence of any HCV in the area.

3.10. Forest Fire Protection

The BFMC members will ensure that the bamboo forest is well protected from forest fires. The community members will take due care, especially in the fire season by patrolling and creating fire lines, removing inflammable dry biomass from the forest floor. Clearance of dry biomass on the periphery will be undertaken before the onset of fire season i.e. November to December. BFMC will also create awareness in the whole village for taking all precautions to prevent forest fires.

3.11. Environmental Protection

The Bamboo Forest Management Plan (BFMP) will also take care of other environmental concerns. It will be ensured that activities under BFMP do not cause adverse environmental impacts in the land and water bodies in the vicinity of bamboo forest. Fire protection measures like creation and maintenance of fire line, removal of inflammable dry biomass and patrolling in the sensitive areas, will be part of the BFMP duties. BFMC will also organize awareness campaigns for environmental protection and fire risk reduction. Environmental protection activities will also include prevention of river/ stream pollution, plastic pollution and soil erosion.

3.12. Site Access, Road & Trails

Current access is via earthen road from the village. Trails are narrow and steep. Improvement of trails through graveling and culvert installations will be undertaken in due course of time to ensure year-round access to the forest for harvesting and patrolling while preventing erosion and waterlogging.

3.13. Diversifying Bamboo based Economy

Initially the focus of the bamboo forest management will be on producing bamboo culms in a sustainable and environment friendly manner. Gradually, steps will also be taken to diversify bamboo-based enterprises in the village by procuring basic bamboo processing machines and imparting training to the bamboo craftsmen. This will generate more income to the community members by selling value-added products like slivers, agarbatti sticks, treated culms, handicrafts etc.

4. Monitoring

4.1. Management activities and condition of management units

BFMC will be responsible for management activities as per the following tables:

Table 7: Monitoring of management activities

SI. No.	Monitoring	Frequency	Remarks
1	Growing stock	Annual	Measurement of volume, density, and growth compared to previous data.
2	Protection from forest fire	Annual	By recording incident of fire and area burnt
3	Survival percentage of seedlings planted	Annual	By actual count
4	Soil health	Annual	Visual observation
5	Invasive species	Annual	Identifying invasive species in any area affected by them.

4.2. Social & Environmental Impacts

The bamboo forest Committee (BFMC) will record and review these indicators periodically to ensure equity and sustainable livelihood benefits for the community as per the following tables:

Table 8 : Monitoring of Social & Environmental Impacts

SI. No.	Monitoring	Frequency	Remarks
1	Income generated from bamboo and related activities	Annual	Average annual income
2	Income generated from bamboo and related activities	Annual	Per household
3	Employment opportunities created for community members	Annual	Actual number
4	Participation of local stakeholders, including women and SHGs, in forest management activities	Annual	Actual number
5	Safety	Annual	Incidence of injury, if any
6	Disturbance to biodiversity	Annual	Observation by transect survey
7	Plastic pollution	Annual	Number of plastic materials observed during transect survey

Table 9 : Record Keeping of all the FSC Products Sold

Sl. No.	Bamboo culms number		Date of sale	Name of Purchaser	Address of Purchaser	Remarks
	Species	Number				

5. Roles and Responsibilities

The Group Entity acts as the central administrative body holding the group certificate on behalf of the Resource Management Units (RMUs), responsible for ensuring all group members comply with FSC Forest Management standards.

Resource Management Unit (RMU)/ Bamboo Forest Management Committee (BFMC) acts as body that has ownership rights over the bamboo forest(s) and is also responsible for managing the overall resource for the process of certification. The highest level of decision-making in the village is the Nokma, heading the Village Council. For bamboo forest management activities, the Village Council will form a Bamboo Forest Management Committee (BFMC).

A Group Member in the FSC certification scheme is an individual who is part of a larger group holding a single, shared certificate. The individual member retains specific responsibilities to ensure compliance with FSC principles.

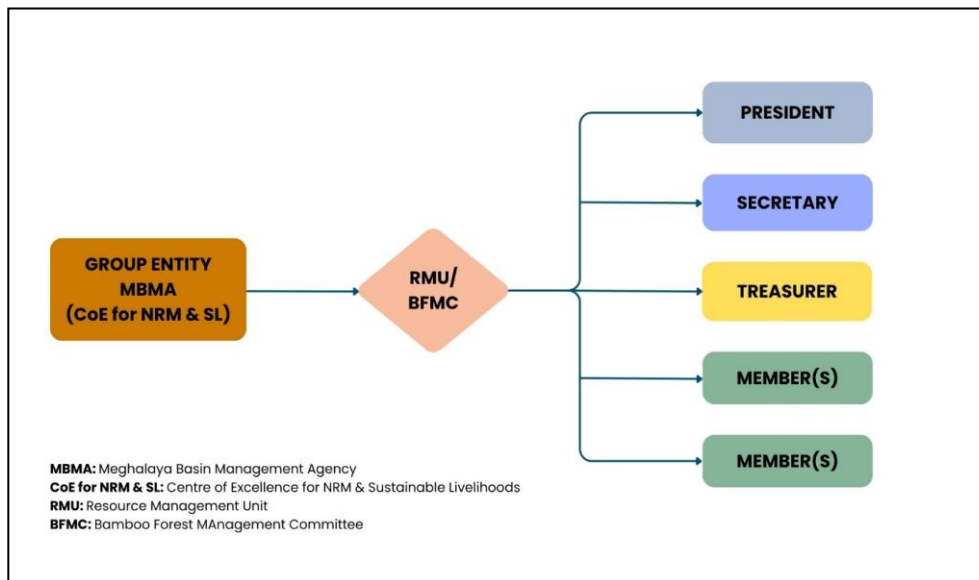


Figure 4: Structure of the organisation

5.1. Group Entity: Centre of Excellence (NRM & SL), MBMA

Key responsibilities of the Group Entity include:

- Develop the framework and maintain written procedures for membership, covering organizational structure, eligibility, and withdrawal/ suspension.
- Maintain written procedures for managing the group and a public policy of commitment

to FSC Principles and Criteria.

- Ensure sufficient human and technical resources to manage the group, including defining the maximum number of members.
- Provide members with documentation, including the FSC standard, group rules, an explanation of the certification process, and cost structure.
- Identify training needs and provide training and communication strategies to help members implement FSC standards.
- Act as the primary contact for the certification body, FSC, and ASI when required.
- Implement a documented monitoring system to ensure continued compliance with FSC standards.
- Conduct regular (at least annual) on-site monitoring visits to a sample of group members.
- Issue corrective action for non-compliances identified during internal audits and monitor their implementation.
- Maintain up-to-date group records for at least five years, including member lists, consent forms, training records, maps, and monitoring reports.
- Implement a system for tracking and tracing forest products from group members to ensure non-certified material is not mixed with FSC-certified products.
- Provide consent for trading of bamboo when all criteria have been met by RMUs.
- Verify the credibility and authenticity of the buyer before issuing the consent.
- Approve use of the FSC trademark for RMUs working with the certification body.
- Ensure invoices for FSC-certified material are issued correctly and filed by members.
- Evaluate every applicant to ensure compliance with standards before adding them to the group.
- Ensure all actors within the group understand their responsibilities.
- The group entity holds the certificate and ensures that no confusing or incorrect certificates are issued to members.

5.2. Resource Management Unit (RMU)/ Bamboo Forest Management Committee (BFMC)

A body that has ownership rights over the bamboo forest(s) and is also responsible for managing the overall resource.

- The primary responsibility of an RMU is to implement centralized, homogeneous, and sustainable forest management on behalf of members, ensuring compliance with FSC Principles and Criteria.
- Ensure that their management units are not included in any other FSC certificate.
- Implementing, and keeping up-to-date management plans for all units in the RMU/BFMC.
- The RMU must take control over key management activities, including harvesting,

planting, and silvicultural practices, to ensure they meet FSC standards and are consistent with sustainable forest management practices.

- Implementing a documented, regular (annual) monitoring and internal audit system to verify that management units continue to comply with FSC requirements.
- Establishing a tracking system to ensure that non-certified material is not mixed with FSC-certified material, and that all bamboo can be traced from the forest to the point of first sale.
- Ensuring all forest workers and community members operating in the RMU receive necessary training, supervision, and safety protection.
- Maintain records of forest management activities, including harvest volumes, planting, and sales of FSC-certified material, for at least five years.
- Actively engaging with local communities and other affected parties to identify and resolve conflicts over tenure, use rights, and management impacts.

5.3. Group Member

A Group Member in the FSC certification scheme is an individual that is part of a larger group holding a single, shared certificate. The individual member retains specific responsibilities to ensure compliance with FSC principles (Annexure X).

The responsibilities of an FSC group member generally include:

- Implement the relevant FSC requirements within their own forest management unit.
- Follow the written procedures, guidelines, and rules established by the Group Entity.
- Sign a declaration of consent committing to FSC principles and authorizing the Group Entity to manage the certification on their behalf.
- He/ She will be responsible for implementing all the prescriptions given in the Bamboo Forest Management Plan (BFMP).
- Utilize the tracking system defined by the Group Entity to ensure non-certified material is not mixed with FSC-certified material.
- Participate in internal monitoring visits conducted by the Group Entity (usually annually).
- Cooperate with the third-party certification body during their evaluation of the group, which includes allowing site access to auditors.
- Implement necessary corrective actions for any non-conformities identified during internal or external audits.
- Use of the FSC trademark and logo only with the prior approval of the Group Entity and the certification body.
- Ensure all sales invoices for FSC-certified material contain the required information (including the group certificate code).
- Attend training activities and familiarise themselves with the FSC standards and group procedures provided by the group manager.

5.4. President

- The President has overall responsibility for ensuring conformity with forest management certification standards and group rules.
- He/ She oversees all operational forest management activities (e.g., planting, harvesting) within the RMU to ensure they meet certification standards.
- Maintains all necessary documentation, implements internal monitoring, and tracks conformance with the group certification standard.
- The President identifies training needs and records/ closes out any non-conformities found during internal or external audits.
- He/ She serves as the key contact between group members, group auditors, and the certification body.
- In some cases, he/ she will be responsible for training, evaluating, and supervising work within the group.

5.5. Secretary

- Maintains secure, organized records of all certification applications, assessments, and decisions, ensuring they are available for audits.
- Files and manages all committee correspondence, reports, and official documents.
- Liaises with the President to convene meetings, prepare agendas and schedules meetings well in advance.
- Records accurate minutes, documenting discussions, motions, and decisions made regarding certification.
- Circulates meeting materials, agenda items, and minutes to group members.
- Ensures the RMUs/ BFMCs certification activities align with governing documents, legal requirements, and industry standards.
- Responds to queries regarding the certification process, procedures, and status.
- Prepares annual reports or updates on certification activities.
- Communicates certification decisions to stakeholders and ensures follow-up actions are completed.
- Assists in auditing and verifying the accuracy of certification documents before final approval.

5.6. Treasurer

- Manage bank account of the RMU and ensure funds are deposited in the Bank correctly.
- Provide regular, accurate financial updates to the committee regarding income, expenses, and cash flow, highlighting any budgetary deviations.
- Maintain up-to-date, detailed financial records, including receipts, invoices, and bank statements, ensuring they are prepared for annual audits or legal requirements.

- Authorization of payments whenever required.
- Asset management.
- The Treasurer should have a grounded understanding of budgeting, accounting practices, and financial reporting.

5.7. Maps

Fig 4: Satellite image showing the bamboo forest boundary.

Fig 5: Distribution map of inventory sample plots.

Fig 6: Drainage map of Karawengre village

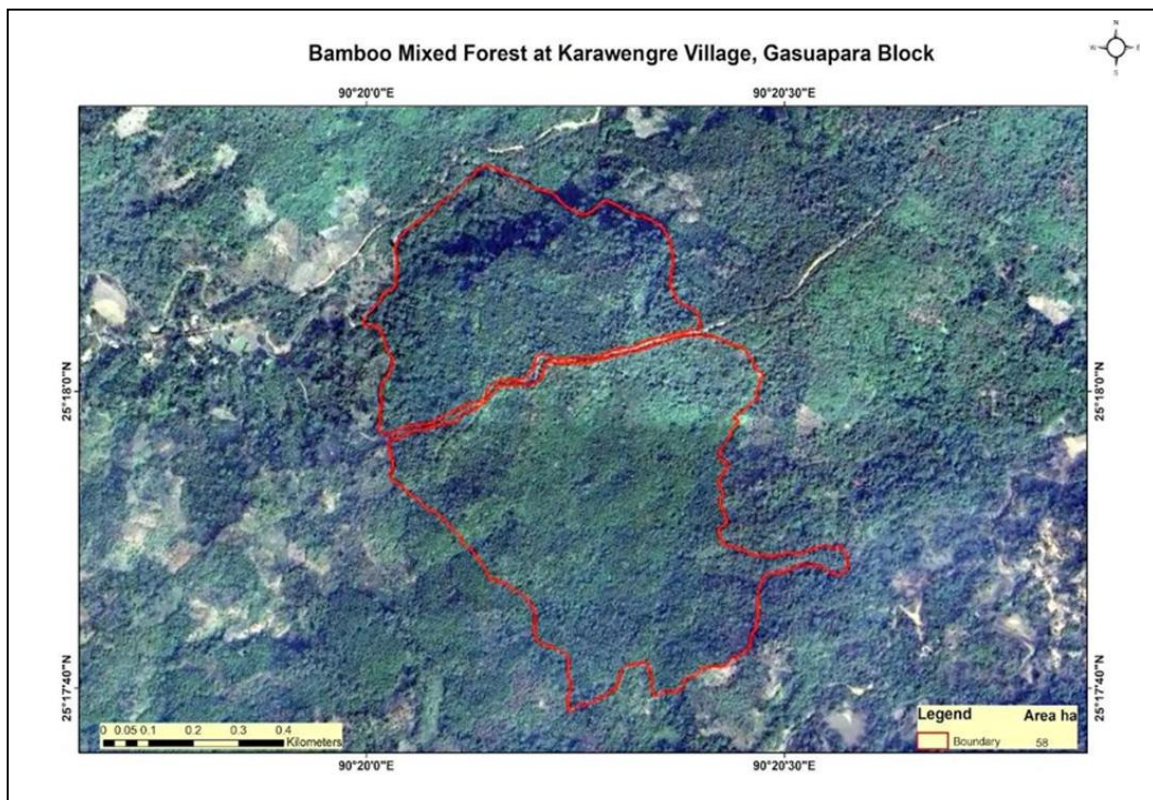


Figure 5: Satellite image overlaid with boundary of bamboo forest

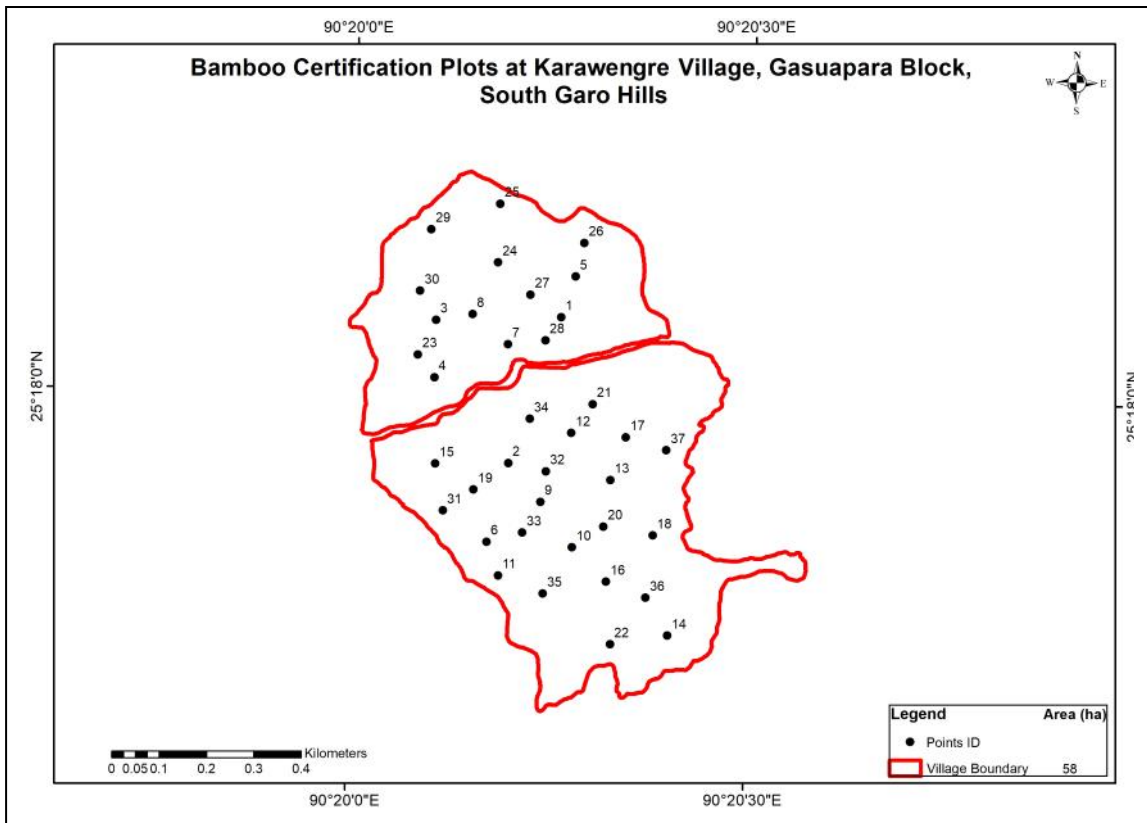


Figure 6: Bamboo forest map showing the location of sample plots

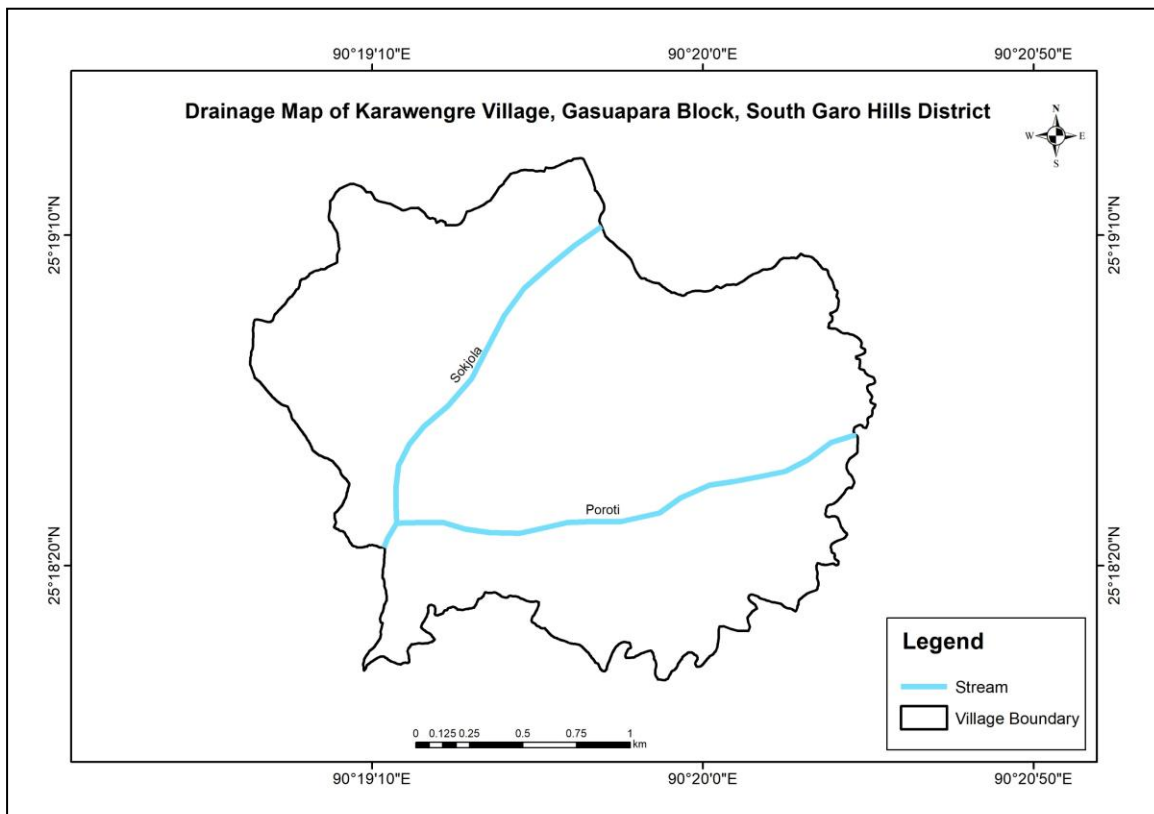


Figure 7: Drainage map of Karawengre village



Figure 8: Bamboo resource inventory exercise at Karawengre village

Resolution

Date: 17th April 2025

Village: Karawengre Village

Block: Gasuapara C & RD block

District: South Garo Hills District, Meghalaya

In a meeting held on 17th April 2025, the Village Council (A. King Nokma) along with other stakeholders discussed and passed the resolution in connection with sustainable bamboo forest management and certification which are as follows: -

1. Formation of Village Bamboo Management Committee (VBMC):

The A. King Nokma hereby expresses its willingness and commitment to manage bamboo forests sustainably by forming a **Village Bamboo Management Committee (VBMC)**.

The VBMC will consist of 5 members:

- o 1 President
- o 1 Secretary
- o And 4 Executive Members (including at least 2 female members)

Members will be representatives from the village households, Self Help Groups (SHGs), and bamboo-based enterprise if any.

The committee shall be entrusted with the responsibility to:

- a) Ensure sustainable management of bamboo forest according to the approved Bamboo Forest Management Plan.
- b) Oversee and coordinate all bamboo-related management and certification activities in the Village.
- c) Collaborate & cooperate with the facilitating agency, government departments, and certification bodies.
- d) Ensure transparent decision-making and equitable benefit-sharing from bamboo resources.

2. Commitment to Environmental Safeguard:

The A. King Nokma and VBMC commit to adhere to the principles of environmental and social safeguards, including:

- i. Avoidance of adverse impacts on biodiversity, water sources, and ecological balance.
- ii. Promotion of practices that align with **climate resilience, ecosystem restoration, and carbon sequestration goals**.
- iii. Take all measures to prevent forest fires, if forest fires take place, then make all efforts to control the same at the earliest.
- iv. Any bamboo based enterprise/industry established in the Village should not cause air, water, or sound pollution. There should not be discharge of any harmful chemicals/ substances to the water or soil.

3. Commitment to Social Safeguard:

- i. Protection of traditional and cultural rights of all community members.
- ii. Ensuring Inclusive participation of **vulnerable groups like women, and people with disabilities** in decision-making and benefit-sharing.
- iii. Women will be given equal representation in the activities of bamboo management, utilization enterprise etc.
- iv. VBMC will ensure equitable sharing of benefits from bamboo forest or its utilization.

4. Creating Awareness

- i. The VBMC will mobilise community members about the importance of bamboo management, rule and regulation laid out by the them, certification, and its benefit in the village.
- ii. Fire safety tips.
- iii. Sustainable bamboo harvesting.
- iv. Environmental and Ecology

5. Free, prior and informed consent (EPIC)



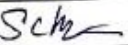
























All the community members of the Karawengre village have been explained about the objectives and management activities, including certification. All their queries have also been answered to their satisfaction. All this was done in the meeting held on the 17th April 2025 at Karawengre village. At the end of the meeting, the community members offer their consent to the bamboo management initiatives in the village and also to the certification.





Signature
Headman
Karawengre Nokma
P.O. Box 100
Nokma - 9110
Karawengre - King
South Caro Hillis


Signature
Secretary
Karawengre


Signature
Treasurer
Karawengre

List of participants present in the stakeholder meeting with Karawengre Village Council held on the 17th April, 2025

No.	Name	Male/ Female	Designation	Signature
1	Percina Ch Momin	Female	Nokma	
2	Miss. Swamy ch momin	Female	VCF	
3	Singwilla ch momin	F	JICA President	
4	Mellina ch Marak	F	JICA Secy	
5	Lipson A Marak	M		
6	Concert ch momin	M		
7	Momosh M. Marak	Male		
8	Zimison K Sangma	"		
9	DulSilla ch Momin			
10	Amiston Ch Marak	male	VCF	
11	Barlin M Sangma			
12	Shri Dipson M Sangma	M		
13	Gachime Ch Momin	Female		
14	Shri Dallis u Marak	M		
15	Senolitha Ch Momin	female	member	
16	Smt Norindik Sangma	Female		
17	PSONSI Ch Momin	male		
18	Smt Ch Momin	"		
19	Pranika Ch Momin	F		
20	Jeremi ch momin	male	or	
21	Skolse ch Momin	F		
22	Silji Ch Momin	Female		
23	Simki Ch Momin	Female		
24	Stenchi M. Sangma			
25	Shri. Dickson M. Sangma	M		
26	Anilha Ch Momin	Female		
27	Marbrih ch Momin			

28	Deanche H marek	M		Pmarek
29	Balchi Ch Monin	F		B/M
30	Sonu R Marek	M		S.R.M
31	Sabanna D Sangma	F		SPi
32	Shri Dewal R Sanga	M		D.S.
33	Chilka ch monin	M		Ch
34	Dakone ch monin	F		Ch
35	Fred G. Monin	M	BPM	Fly
36	Adith ch monin	M		B.C.M
37	Willina ch. Monin	F		
38	Evelyn grace Ch Monin	F	BPM	
39	Skuria R Sangma	F		SOS
40	Lele ch marek	F		



Stakeholder Consultation for bamboo Forest Management Plan in Karawengre village on 17th April 2025

Annexure– I

SELF-DECLARATION OF COMMITMENT TO FSC PRINCIPLES AND CRITERIA

I _____, the undersigned smallholder, hereby declare my long-term commitment to adhere to the FSC Principles and Criteria, and to comply with the relevant FSC Policies and Standards within my Management Unit.

By voluntarily participating in the FSC certification process, I confirm my intent to manage my forest resources responsibly, in accordance with the values and guidelines set forth by the Forest Stewardship Council (FSC). This includes environmental stewardship, social responsibility, and economic viability as outlined in the FSC system.

This commitment shall be documented in a publicly available format and made freely accessible to all stakeholders, including community members, regulatory agencies, and certifying bodies.

By choosing to participate in the FSC certification system, the smallholder confirms their conformity with the requirements of this criterion and their active role in supporting sustainable and responsible forest management.

This declaration affirms that I understand and accept the obligations and benefits of being part of the FSC system, and that I will continue to operate in conformity with its requirements.

Name of Smallholder : _____
Location of Management Unit: _____
Signature : _____
Contact Information : _____
ID Proof Details : _____
Date : _____

Judicial System in the Garo District : The Rules of 1953

Detailed provisions as to the judicial system of the Garo District are contained in the Rules called the Garo Hills Autonomous District (Administration of Justice) Rules, 1953 (hereinafter referred to as Rules) dealing with the administration of justice in that district. Topic-wise discussion of the position follows.

Constitution of Village Councils

In the Garo District, there is a Village Council for each village within the jurisdiction of the District Council. Each Village Council is to be composed of—

- (a) the *lasker*¹ of the village, to be recognised by the District Council.
- (b) elders, half of whom shall be nominated by the executive committee and the other half elected by the adult members of the village, the number of elders for each Village Council being determined by the District Council.²

There is a president and a vice-president of each Village Council. The president and the vice-president shall be elected by the members of the Council from amongst themselves, by a majority of votes.³

Every Village Council has a life of five years from the date of its first meeting, unless dissolved earlier by the District Council.⁴

Constitution of courts

There are three classes of courts (as specified below) in the areas

1. *Lasker* is an office-holder resembling the village headman.
2. Rule 4.
3. *Ibid.*
4. *Ibid.*



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EXTRAORDINARY
PUBLISHED BY AUTHORITY

No. 49

Shillong, Friday, May 29, 2015,

8th Jyaistha, 1937 (S. E.)

PART-IV

GOVERNMENT OF MEGHALAYA
LAW (B) DEPARTMENT
ORDERS BY THE GOVERNOR

NOTIFICATION

The 29th May, 2015.

No.LI(B)39/2015/21.—The Meghalaya Local Administration (Empowerment of Traditional Institutions, Traditional Bodies and Headmen in Governance and Public Delivery System) Ordinance, 2015 is hereby published for general information.

MEGHALAYA ORDINANCE NO. 1 OF 2015.

Promulgated by the Governor on the 29th May, 2015.

Published in the Gazette of Meghalaya Extra-Ordinary issue dated 29th May, 2015.

**THE MEGHALAYA LOCAL ADMINISTRATION (EMPOWERMENT OF
TRADITIONAL INSTITUTIONS, TRADITIONAL BODIES AND HEADMEN IN
GOVERNANCE AND PUBLIC DELIVERY SYSTEM) ORDINANCE, 2015.**

An

Ordinance

to provide for association of traditional institutions, traditional bodies and headmen in the Government developmental programmes and delivery of public services, wherever required and to the extent necessary, in the interest of public at large and for matters connected therewith.

Annexure– IV

Sample Plot Data for Clump-Forming Bamboo

Plot ID	Latitude	Longitude	Type of Land	Approx. Size of Clump (m)	Species		Number of Culms in different Girth Classes			
					Local Name	Botanical Name	1-15 (cm)	15-30 (cm)	>30 (cm)	Total
1	25.301496	90.337698	Community	3.5	Teksra	<i>Gigantochloa macrostachya</i>	30	80	20	130
2	25.298702	90.336647	Community	3.45	Wanari	<i>Bambusa tulda</i>	9	30	0	39
2	25.298702	90.336647	Community	2.6	Wanari	<i>Bambusa tulda</i>	12	17	0	29
2	25.298702	90.336647	Community	3.55	Wanari	<i>Bambusa tulda</i>	13	21	0	34
2	25.298702	90.336647	Community	4.04	Wanari	<i>Bambusa tulda</i>	29	35	0	64
2	25.298702	90.336647	Community	2.65	Wanari	<i>Bambusa tulda</i>	7	18	0	25
4	25.300306	90.335071	Community	3.85	Wanari	<i>Bambusa tulda</i>	18	16	0	34
4	25.300306	90.335071	Community	3.75	Wanari	<i>Bambusa tulda</i>	7	95	0	102
5	25.302274	90.337987	Community	2.62	Wanari	<i>Bambusa tulda</i>	7	18	0	25
5	25.302274	90.337987	Community	2.9	Wanari	<i>Bambusa tulda</i>	10	19	0	29
5	25.302274	90.337987	Community	2.8	Wadro	<i>Ochlandra scriptoria</i>	8	23	0	31
5	25.302274	90.337987	Community	2.92	Wadro	<i>Ochlandra scriptoria</i>	12	30	0	42
6	25.297196	90.336225	Community	3.25	Wanari	<i>Bambusa tulda</i>	4	20	0	24
6	25.297196	90.336225	Community	3.9	Wanari	<i>Bambusa tulda</i>	6	30	0	36
6	25.297196	90.336225	Community	3.27	Wanari	<i>Bambusa tulda</i>	10	18	0	28
6	25.297196	90.336225	Community	3.8	Wanari	<i>Bambusa tulda</i>	9	19	0	28
7	25.30096	90.336593	Community	3.9	Wanari	<i>Bambusa tulda</i>	50	30	0	80
7	25.30096	90.336593	Community	1.5	Wanari	<i>Bambusa tulda</i>	3	7	0	10
7	25.30096	90.336593	Community	3.45	Wanari	<i>Bambusa tulda</i>	20	60	10	90
7	25.30096	90.336593	Community	4.25	Wanari	<i>Bambusa tulda</i>	25	70	15	110
7	25.30096	90.336593	Community	4.3	Wanari	<i>Bambusa tulda</i>	30	55	30	115
8	25.30152	90.33584	Community	3.4	Wanari	<i>Bambusa tulda</i>	10	20	0	30
8	25.30152	90.33584	Community	3.35	Wanari	<i>Bambusa tulda</i>	3	28	0	31
8	25.30152	90.33584	Community	3.6	Wanari	<i>Bambusa tulda</i>	6	30	0	36
9	25.297974	90.337338	Community	3.75	Wanari	<i>Bambusa tulda</i>	10	28	0	38
9	25.297974	90.337338	Community	3.55	Wanari	<i>Bambusa tulda</i>	9	25	0	34

9	25.297974	90.337338	Community	3	Wanari	<i>Bambusa tulda</i>	7	21	0	28
9	25.297974	90.337338	Community	3.62	Wanari	<i>Bambusa tulda</i>	6	29	0	35
10	25.29712	90.338019	Community	2.9	Wanari	<i>Bambusa tulda</i>	6	30	0	36
10	25.29712	90.338019	Community	3.4	Wanari	<i>Bambusa tulda</i>	10	32	0	42
10	25.29712	90.338019	Community	2.75	Wanari	<i>Bambusa tulda</i>	7	25	0	32
10	25.29712	90.338019	Community	6.1	Wanari	<i>Bambusa tulda</i>	8	33	0	41
10	25.29712	90.338019	Community	3.6	Wanari	<i>Bambusa tulda</i>	5	25	0	30
10	25.29712	90.338019	Community	2.9	Wanari	<i>Bambusa tulda</i>	9	25	0	34
11	25.29656	90.336481	Community	3.25	Wanari	<i>Bambusa tulda</i>	11	25	0	36
11	25.29656	90.336481	Community	3.1	Wanari	<i>Bambusa tulda</i>	4	26	0	30
11	25.29656	90.336481	Community	3.27	Wanari	<i>Bambusa tulda</i>	10	30	0	40
12	25.299298	90.337956	Community	3.9	Teksra	<i>Gigantochloa macrostachya</i>	5	18	0	23
12	25.299298	90.337956	Community	3.55	Teksra	<i>Gigantochloa macrostachya</i>	8	16	0	24
12	25.299298	90.337956	Community	3.6	Wanari	<i>Bambusa tulda</i>	13	9	19	41
12	25.299298	90.337956	Community	3.54	Wanari	<i>Bambusa tulda</i>	10	25	0	35
12	25.299298	90.337956	Community	2.9	Wanari	<i>Bambusa tulda</i>	7	18	0	25
13	25.298416	90.338793	Community	3.6	Teksra	<i>Gigantochloa macrostachya</i>	11	20	7	38
13	25.298416	90.338793	Community	3.55	Wanari	<i>Bambusa tulda</i>	8	22	0	30
13	25.298416	90.338793	Community	3.03	Wanari	<i>Bambusa tulda</i>	5	20	0	25
13	25.298416	90.338793	Community	2.97	Wanari	<i>Bambusa tulda</i>	8	25	0	33
13	25.298416	90.338793	Community	3.42	Teksra	<i>Gigantochloa macrostachya</i>	7	12	10	29
14	25.295478	90.340053	Community	3.6	Wanari	<i>Bambusa tulda</i>	12	29	0	41
14	25.295478	90.340053	Community	3.5	Wanari	<i>Bambusa tulda</i>	10	28	0	38
14	25.295478	90.340053	Community	2.95	Wanari	<i>Bambusa tulda</i>	7	18	0	25
14	25.295478	90.340053	Community	2.905	Wanari	<i>Bambusa tulda</i>	5	21	0	26
15	25.298664	90.335116	Community	3.6	Wanari	<i>Bambusa tulda</i>	6	25	0	31
15	25.298664	90.335116	Community	2.9	Wanari	<i>Bambusa tulda</i>	8	22	0	30
15	25.298664	90.335116	Community	3.62	Wanari	<i>Bambusa tulda</i>	7	28	0	35
15	25.298664	90.335116	Community	2.8	Wanari	<i>Bambusa tulda</i>	8	25	0	33
15	25.298664	90.335116	Community	2.85	Wanari	<i>Bambusa tulda</i>	9	18	0	27
16	25.29648	90.338742	Community	3.67	Wanari	<i>Bambusa tulda</i>	10	28	0	38

16	25.29648	90.338742	Community	2.9	Wanari	<i>Bambusa tulda</i>	7	22	0	29
16	25.29648	90.338742	Community	3.05	Wanari	<i>Bambusa tulda</i>	9	26	0	35
17	25.299237	90.339101	Community	3.7	Teksra	<i>Gigantochloa macrostachya</i>	10	19	11	40
17	25.299237	90.339101	Community	3.62	Wanok	<i>Dendrocalamus hamiltonii</i>	11	7	15	33
17	25.299237	90.339101	Community	3.62	Teksra	<i>Gigantochloa macrostachya</i>	9	15	10	34
17	25.299237	90.339101	Community	3.92	Wanari	<i>Bambusa tulda</i>	11	22	0	33
17	25.299237	90.339101	Community	3.56	Wanari	<i>Bambusa tulda</i>	4	25	0	29
18	25.297378	90.339703	Community	3.42	Wanari	<i>Bambusa tulda</i>	8	190	0	198
18	25.297378	90.339703	Community	3.9	Wanari	<i>Bambusa tulda</i>	6	20	0	26
18	25.297378	90.339703	Community	3.78	Wanari	<i>Bambusa tulda</i>	10	28	0	38
19	25.298183	90.335929	Community	3.67	Wanari	<i>Bambusa tulda</i>	11	28	0	39
19	25.298183	90.335929	Community	3.95	Wanari	<i>Bambusa tulda</i>	7	21	0	28
19	25.298183	90.335929	Community	2.97	Wanari	<i>Bambusa tulda</i>	9	26	0	35
19	25.298183	90.335929	Community	2.88	Wanari	<i>Bambusa tulda</i>	7	28	0	35
19	25.298183	90.335929	Community	2.73	Wanari	<i>Bambusa tulda</i>	4	18	0	22
20	25.297529	90.338667	Community	3.04	Wanari	<i>Bambusa tulda</i>	8	19	0	27
20	25.297529	90.338667	Community	3.75	Teksra	<i>Gigantochloa macrostachya</i>	7	30	8	45
20	25.297529	90.338667	Community	3.4	Teksra	<i>Gigantochloa macrostachya</i>	10	20	15	45
20	25.297529	90.338667	Community	3.1	Wanari	<i>Bambusa tulda</i>	10	18	0	28
21	25.299852	90.338391	Community	3.2	Wanari	<i>Bambusa tulda</i>	9	22	0	31
22	25.29529	90.338854	Community	2.85	Teksra	<i>Gigantochloa macrostachya</i>	30	80	20	130
22	25.29529	90.338854	Community	3.2	Wanari	<i>Bambusa tulda</i>	10	20	0	30
22	25.29529	90.338854	Community	3.05	Wanari	<i>Bambusa tulda</i>	9	15	0	24
23	25.300734	90.33471	Community	1.37	Teksra	<i>Gigantochloa macrostachya</i>	8	14	0	22
23	25.300734	90.33471	Community	1.25	Teksra	<i>Gigantochloa macrostachya</i>	20	8	0	28
24	25.302515	90.336351	Community	3.12	Wanari	<i>Bambusa tulda</i>	9	20	0	29
24	25.302515	90.336351	Community	3.75	Wanari	<i>Bambusa tulda</i>	4	21	0	25
24	25.302515	90.336351	Community	3.42	Wanok	<i>Dendrocalamus hamiltonii</i>	3	20	0	23
24	25.302515	90.336351	Community	2.9	Wanok	<i>Dendrocalamus hamiltonii</i>	7	17	0	24
24	25.302515	90.336351	Community	3.1	Wanari	<i>Bambusa tulda</i>	11	20	0	31
25	25.30363	90.336376	Community	2.92	Wanari	<i>Bambusa tulda</i>	8	21	0	29

25	25.30363	90.336376	Community	3.67	Wanari	<i>Bambusa tulda</i>	10	23	0	33
25	25.30363	90.336376	Community	2.85	Teksra	<i>Gigantochloa macrostachya</i>	11	18	15	44
25	25.30363	90.336376	Community	3.03	Teksra	<i>Gigantochloa macrostachya</i>	7	24	12	43
26	25.302916	90.338152	Community	2.75	Wanok	<i>Dendrocalamus hamiltonii</i>	8	20	0	28
26	25.302916	90.338152	Community	2.95	Wanok	<i>Dendrocalamus hamiltonii</i>	7	22	0	29
26	25.302916	90.338152	Community	3.55	Wanari	<i>Bambusa tulda</i>	13	22	0	35
26	25.302916	90.338152	Community	3.5	Wadro	<i>Ochlandra scriptoria</i>	20	30	0	50
26	25.302916	90.338152	Community	2.65	Wadro	<i>Ochlandra scriptoria</i>	17	26	0	43
26	25.302916	90.338152	Community	2.67	Wanari	<i>Bambusa tulda</i>	9	18	0	27
28	25.301049	90.337376	Community	2.6	Wanari	<i>Bambusa tulda</i>	12	20	0	32
28	25.301049	90.337376	Community	2.15	Wanari	<i>Bambusa tulda</i>	7	12	0	19
28	25.301049	90.337376	Community	2.5	Wanari	<i>Bambusa tulda</i>	12	20	0	32
28	25.301049	90.337376	Community	2.5	Wanari	<i>Bambusa tulda</i>	15	5	0	20
28	25.301049	90.337376	Community	2.5	Wanari	<i>Bambusa tulda</i>	15	18	0	33
29	25.303123	90.33494	Community	2.92	Wanari	<i>Bambusa tulda</i>	3	25	0	28
29	25.303123	90.33494	Community	3.25	Wanari	<i>Bambusa tulda</i>	8	35	0	43
29	25.303123	90.33494	Community	2.6	Wanok	<i>Dendrocalamus hamiltonii</i>	8	12	0	20
29	25.303123	90.33494	Community	3.77	Wanok	<i>Dendrocalamus hamiltonii</i>	10	25	0	35
30	25.301947	90.33473	Community	2.75	Teksra	<i>Gigantochloa macrostachya</i>	9	20	5	34
30	25.301947	90.33473	Community	1.92	Teksra	<i>Gigantochloa macrostachya</i>	10	15	4	29
30	25.301947	90.33473	Community	2.65	Wanok	<i>Dendrocalamus hamiltonii</i>	8	15	8	31
31	25.298558	90.337437	Community	3.75	Wanari	<i>Bambusa tulda</i>	11	30	0	41
31	25.298558	90.337437	Community	3..94	Wanari	<i>Bambusa tulda</i>	7	32	0	39
31	25.298558	90.337437	Community	3.72	Wanari	<i>Bambusa tulda</i>	8	34	0	42
31	25.298558	90.337437	Community	3.83	Wanari	<i>Bambusa tulda</i>	10	28	0	38
31	25.298558	90.337437	Community	3.74	Wanari	<i>Bambusa tulda</i>	6	26	0	32
31	25.298558	90.337437	Community	3.65	Wanari	<i>Bambusa tulda</i>	9	25	0	34
31	25.298558	90.337437	Community	3.6	Wanari	<i>Bambusa tulda</i>	8	28	0	36
32	25.298558	90.337437	Community	3.9	Wanari	<i>Bambusa tulda</i>	12	32	0	44
32	25.298558	90.337437	Community	2.93	Wanari	<i>Bambusa tulda</i>	10	29	0	39
32	25.298558	90.337437	Community	3.64	Wanari	<i>Bambusa tulda</i>	8	32	0	40

32	25.298558	90.337437	Community	3	Wanari	<i>Bambusa tulda</i>	10	30	0	40
32	25.298558	90.337437	Community	3.95	Wanari	<i>Bambusa tulda</i>	5	21	0	26
32	25.298558	90.337437	Community	3.55	Wanari	<i>Bambusa tulda</i>	8	27	0	35
33	25.297384	90.336969	Community	3.6	Wanari	<i>Bambusa tulda</i>	6	28	0	34
33	25.297384	90.336969	Community	3.65	Wanari	<i>Bambusa tulda</i>	9	30	0	39
33	25.297384	90.336969	Community	2.6	Wanari	<i>Bambusa tulda</i>	6	22	0	28
33	25.297384	90.336969	Community	3.44	Wanari	<i>Bambusa tulda</i>	9	30	0	39
34	25.299551	90.337081	Community	3.1	Wanari	<i>Bambusa tulda</i>	9	22	0	31
34	25.299551	90.337081	Community	3.01	Wanari	<i>Bambusa tulda</i>	8	20	0	28
35	25.296229	90.337423	Community	3	Wanari	<i>Bambusa tulda</i>	13	30	0	43
35	25.296229	90.337423	Community	3.1	Wanari	<i>Bambusa tulda</i>	10	18	0	28
35	25.296229	90.337423	Community	3.25	Wanari	<i>Bambusa tulda</i>	15	29	0	44
35	25.296229	90.337423	Community	3.1	Wanari	<i>Bambusa tulda</i>	8	28	0	36
35	25.296229	90.337423	Community	3.4	Wanari	<i>Bambusa tulda</i>	4	23	0	27
36	25.296191	90.339579	Community	3.83	Wanari	<i>Bambusa tulda</i>	8	25	0	33
36	25.296191	90.339579	Community	3.77	Wanari	<i>Bambusa tulda</i>	4	25	0	29
36	25.296191	90.339579	Community	2.94	Wanari	<i>Bambusa tulda</i>	9	28	0	37
36	25.296191	90.339579	Community	2.8	Wanari	<i>Bambusa tulda</i>	7	28	0	35
36	25.296191	90.339579	Community	3.75	Wanari	<i>Bambusa tulda</i>	9	30	0	39
37	25.299003	90.339954	Community	3.68	Wanari	<i>Bambusa tulda</i>	7	25	0	32
37	25.299003	90.339954	Community	3.81	Wanari	<i>Bambusa tulda</i>	11	32	0	43
37	25.299003	90.339954	Community	3.68	Wanari	<i>Bambusa tulda</i>	9	28	0	37

Sample Plot Data for Non-Clump-Forming Bamboo

Plot ID	Latitude	Longitude	Type of Land	Species		Number of Culm in different Girth Classes			
				Local Name	Botanical Name	1-15 (cm)	15-30 (cm)	>30 (cm)	Total
1	25.301496	90.337698	Community	Watre	<i>Melocanna baccifera</i>	335	361	0	696
2	25.298702	90.336647	Community	Watre	<i>Melocanna baccifera</i>	738	770	0	1508
4	25.300306	90.335071	Community	Watre	<i>Melocanna baccifera</i>	435	727	0	1162
5	25.302274	90.337987	Community	Watre	<i>Melocanna baccifera</i>	375	323	0	698
6	25.297196	90.336225	Community	Watre	<i>Melocanna baccifera</i>	286	346	0	632
7	25.30096	90.336593	Community	Watre	<i>Melocanna baccifera</i>	251	270	0	521
8	25.30152	90.33584	Community	Watre	<i>Melocanna baccifera</i>	241	290	0	531
9	25.297974	90.337338	Community	Watre	<i>Melocanna baccifera</i>	410	265	0	675
10	25.29712	90.338019	Community	Watre	<i>Melocanna baccifera</i>	424	372	0	796
11	25.29656	90.336481	Community	Watre	<i>Melocanna baccifera</i>	277	364	0	641
12	25.299298	90.337956	Community	Watre	<i>Melocanna baccifera</i>	399	261	0	660
13	25.298416	90.338793	Community	Watre	<i>Melocanna baccifera</i>	322	312	0	634
14	25.295478	90.340053	Community	Watre	<i>Melocanna baccifera</i>	346	337	0	683
15	25.298664	90.335116	Community	Watre	<i>Melocanna baccifera</i>	198	220	0	418
16	25.29648	90.338742	Community	Watre	<i>Melocanna baccifera</i>	437	332	0	769
17	25.299237	90.339101	Community	Watre	<i>Melocanna baccifera</i>	406	426	0	832
18	25.297378	90.339703	Community	Watre	<i>Melocanna baccifera</i>	416	359	0	775
19	25.298183	90.335929	Community	Watre	<i>Melocanna baccifera</i>	281	225	0	506
20	25.297529	90.338667	Community	Watre	<i>Melocanna baccifera</i>	718	770	0	1488
22	25.29529	90.338854	Community	Watre	<i>Melocanna baccifera</i>	286	285	0	571
23	25.300734	90.33471	Community	Watre	<i>Melocanna baccifera</i>	780	469	0	1249
24	25.302515	90.336351	Community	Watre	<i>Melocanna baccifera</i>	435	290	0	725
25	25.30363	90.336376	Community	Watre	<i>Melocanna baccifera</i>	410	382	0	792
26	25.302916	90.338152	Community	Watre	<i>Melocanna baccifera</i>	337	365	0	702
27	25.301913	90.337044	Community	Watre	<i>Melocanna baccifera</i>	286	285	0	571
28	25.301049	90.337376	Community	Watre	<i>Melocanna baccifera</i>	279	217	0	496
29	25.303123	90.33494	Community	Watre	<i>Melocanna baccifera</i>	530	335	0	865

30	25.301947	90.33473	Community	Watre	<i>Melocanna baccifera</i>	450	350	0	800
31	25.298558	90.337437	Community	Watre	<i>Melocanna baccifera</i>	177	2154	0	2331
32	25.298558	90.337437	Community	Watre	<i>Melocanna baccifera</i>	345	365	0	710
33	25.297384	90.336969	Community	Watre	<i>Melocanna baccifera</i>	392	349	0	741
34	25.299551	90.337081	Community	Watre	<i>Melocanna baccifera</i>	516	240	0	756
35	25.296229	90.337423	Community	Watre	<i>Melocanna baccifera</i>	270	345	0	615
36	25.296191	90.339579	Community	Watre	<i>Melocanna baccifera</i>	399	396	0	795
37	25.299003	90.339954	Community	Watre	<i>Melocanna baccifera</i>	344	367	0	711

TRAININGS

1. Health and safety practices to protect workers

1. The Organization shall implement health and safety practices to protect workers from occupational safety and health hazards. These practices shall, proportionate to scale, intensity and risk of management activities, meet or exceed the recommendations of the ILO Code of Practice on Safety and Health in Forestry Work.
2. The smallholder and his or her temporary workers, employees, family members, business associates and volunteers have safe work practices.
3. The smallholder and his or her temporary workers, employees, family members, business associates and volunteers use appropriate safety equipment.
4. The smallholder or their named representative keeps a record of any accidents.
5. The smallholder changes practices that have caused, or will likely cause, accidents in the smallholder's forest.
6. If hunting or other dangerous activities are part of the forestry activities, the smallholder identifies the dangerous activities and implements safety measures to protect the public where hunting or other dangerous activities related to NTFP activities are carried out

2. Health and safety practices to effectively implement the Management Plan

1. The Organization shall demonstrate that workers have job-specific training and supervision to safely and effectively implement the Management Plan and all management activities.
2. The smallholder provides training and supervision so that temporary workers, employees, family members, business associates and volunteers can work safely and effectively in the tasks that they do.

3. Training on Implementation of the Bamboo Forest Management Plan (BFMP): Horseshoe Method

4. Training on Environmental Stewardship, covering key areas such as:

- Biodiversity Conservation
- Water Resource Management
- Soil Protection

- Forest Fire Prevention and Control

5. Training on the Management Plan

1. The Organization shall make publicly available a summary of the management plan free of charge. Excluding confidential information, other relevant components of the management plan shall be made available to affected stakeholders on request, and at cost of reproduction and handling.
2. If requested, the smallholder provides public information from the management plan to a person who requests it at no cost to the requestor.

6. Training of stakeholders for engaging in the Management Plan

1. The Organization shall, proportionate to scale, intensity and risk of management activities, proactively and transparently engage affected stakeholders in its management planning and monitoring processes, and shall engage interested stakeholders on request.
2. The smallholder informs affected and interested stakeholders about management planning and monitoring.
3. If requested, the smallholder carries out culturally appropriate consultation with affected and interested stakeholders.

7. Training on Monitoring Activities

1. The Organizations shall make publicly available a summary of the results of monitoring free of charge, excluding confidential information.
2. If requested, the smallholder provides results of monitoring to a person who requests them at no cost to the requestor.

Annexure– VI

Control Form for Regulating Bamboo Yield								
Village Name:			Block:			District:		
Year:			Area of Bamboo Forest: ha					
Sl. No	Total prescribed yield for the whole year (Number of culms & weight)	Harvesting				Total number of culms harvested in year & estimated weight	Number of culms destroyed due to fire or illegal felling etc.	Remarks
		Date	Number of culms harvested	Cumulative number of culms harvested	Approximate weight of harvested culms			
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								

SELF-DECLARATION ON THE CONSERVATION AND RESTORATION OF NATIVE ECOSYSTEMS

I _____, the undersigned smallholder, hereby declare my commitment to the responsible management of forest resources within my Management Unit in alignment with the principles of conservation and ecosystem restoration.

In alignment with FSC requirements, I confirm that:

I support the identification and protection of representative sample areas of native ecosystems within the broader landscape in which my bamboo forest is situated.

However, I acknowledge that the area of my bamboo forest is relatively small and therefore cannot independently contain a representative native ecosystem. Despite this, I remain committed to participating in broader conservation initiatives as part of a collective effort.

This commitment reflects my dedication to sustainable forest management that maintains ecological balance, supports biodiversity, and upholds the long-term health of the environment.

Name of Smallholder : _____
Location of Management Unit: _____
Signature : _____
Contact Information : _____
ID Proof Details : _____
Date : _____

SELF-DECLARATION ON THE PROTECTION OF NATIVE SPECIES AND BIODIVERSITY

I _____, the undersigned smallholder, affirm my commitment to the conservation of native species, their natural genotypes, and the overall biological diversity within my forest area.

In accordance with FSC requirements, I declare that:

I have implemented appropriate measures to control hunting, fishing, trapping, and collection activities within my forest area to prevent any harm to native species and their habitats.

These measures aim to ensure the continued existence of naturally occurring native species and to avoid any loss of biodiversity.

This declaration reflects my dedication to responsible and ecologically sound forest management that safeguards biodiversity for current and future generations.

Name of Smallholder : _____
Location of Management Unit: _____
Signature : _____
Contact Information : _____
ID Proof Details : _____
Date : _____

Annexure– IX

List of Animals, Birds, Tree Species and NTFPs in Karawengre

List of Animals

Sl. No.	Animals
1	Wak Burung
2	Matchuri
3	Porcupine
4	Squirrel
5	Makkre
6	Langur

List of Birds

Sl. No.	Birds
1	Domesal
2	Dogrik
3	Dopilgim
4	Pibrot
5	Mintilok
6	Myna
7	Laughing thrush
8	Swiftlet

List of Tree Species (in Local Language)

Sl. No.	Tree Species
1	Bolpu
2	Chamisi
3	Bolchu
4	Boldak
5	Motneng
6	Masanchi
7	Kelwi
8	Palwang
9	Bandikkare
10	Bolsal
11	Matme

List of NTFPs

Sl. No.	NTFPs
1	Honey
2	Mushroom
3	Broomstick
4	Ferns

Annexure– X

List of BFMC Members of Karawengre

Sl. No.	Name	Designation
1	Mr. Perina Ch Momin	President
2	Mr. Wenrol M Sangma	Member
3	Mr. Sonu R Marak	Secretary
4	Mr. Wale G Momin	Member
5	Mr. Hillarious G Sangma	Member
6	Mr. Rajesh M Sangma	Treasurer
7	Mr. Timison K Sangma	Member
8	Mrs. Ledina Ch Momin	Member
9	Mr. Swamy Ch Momin	Member
10	Mrs. Mellina Ch Marak	Member
11	Mrs. Pronika Ch Momin	Member
12	Mr. Kalse Ch Momin	Member
13	Mrs. Silsari Ch Momin	Member
14	Mr. Deanchon M Marak	Member

**The Centre of Excellence (CoE) for
Natural Resource Management & Sustainable
Livelihoods (NRM & SL) under the
Meghalaya Basin Development Authority (MBDA)
is an institution devoted for strengthening
Natural Resource Management (NRM)
in Meghalaya and beyond.**

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