FIELD INSTRUCTIONS
FOR THE

BANGLADESH FOREST INVENTORY
SOCIOECONOMIC SURVEY

The Forest Department of Bangladesh leads actions to improve forest management and conservation, adopting forward thinking, innovative approaches in its management of approximately 1.55 million hectares of land across the country.

In 2015, the Forest Department began a process to establish a National Forest Inventory and Satellite Land Monitoring System for improved forest and natural resource management. The process supports national objectives related to climate change mitigation providing information that will form the basis of the country's Reducing Emissions from Deforestation and Forest Degradation (REDD+) efforts. The process also addresses domestic information needs and supports national policy processes related to forests and the multitude of interconnected human and environmental systems that forests support.

The activities implemented under the Bangladesh Forest Inventory are collaboration between several national and international institutions and stakeholders. National partners from government departments and agencies assist in providing a coordinated approach to land management. International partners, including the United States Agency for International Development (USAID), the Food and Agriculture Organization of the United Nations (FAO) and SilvaCarbon are supporting financial and technical elements of the process to assist in institutionalising the Bangladesh Forest Inventory as permanent tool for forest monitoring in Bangladesh.

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Disclaimer

FOREWORD

A large population living in a relatively small land mass has resulted in tremendous pressure on forest and tree resources of the country. People who are highly dependent on forest and tree resources are increasingly resorting to activities that deforest, degrade and encroach on forest. Anthropic causes currently limit the efficacy of Sustainable Forest Management (SFM) initiatives.
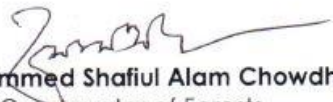
SFM is built on defining hierarchic attributes of the quality of trees and forests in a country, assuming constant interaction between people and forest resources. Since society is responsible for conserving forest and tree resources and enjoys services form these resources, societal concern has been translated into a need for monitoring and reporting on the changes in the quality of forests both temporally and spatially.

Currently, available resources and the demand related to tree and forest products are not well known, and thus, tree and forest related services are not properly reflected in the national statistics in Bangladesh. To better plan, manage and protect our forest, the relationship between humans, trees and forests needs to be well understood.

For an effective monitoring system, the Bangladesh Forest Department must have biophysical and socioeconomic information on forest and tree resources at hand to oversee the direction in which the country's forest resources are heading. A well-planned socioeconomic study focusing on the mutual interaction between people and trees is a prime requirement for the national forest inventory system of Bangladesh.

A cost effective, consistent and replicable methodology is important for the Bangladesh Forest Inventory. For example, we need methods to estimate the contribution of forest economy (e.g., income and employment), governance (e.g. conflict management and equity), Social forestry (e.g. allocation of resources), Biodiversity (e.g. invasive species and species richness), and energy (e.g. fuelwood).

This manual is the result of an extensive consultative process during which national and international experts from universities, national entities and international organizations have contributed to ensure the full adoptability and maximize the performance of the field data collection process.

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Contents

ACRONYMS

BBS	Bangladesh Bureau of Statistics
GDP	Gross Domestic Product
IFAD	International Fund for Agricultural Development
HTR	Hard to Reach
FE	Field Enumerator
TL	Team Leader
FGD	Focus Group Discussion
BFI	Bangladesh Forest Inventory
QA	Quality Assurance
QC	Quality Control
BFD	Bangladesh Forest Department
FAO	Food and Agriculture Organization of the United Nations
HH	Household
GPS	Geographical Information System
DU	Dhaka University
CU	Chittagong University

1   INTRODUCTION

Trees and forests play an important role in sustaining the livelihoods of people, providing food, energy, construction materials and income. The demand for tree and forest resources is increasing as populations grow, particularly in countries like Bangladesh with high population growth rates. It has been estimated that, globally, about 1.1-1.3 billion people are dependent on tree and forest resources, mostly in developing countries (IFAD, 2011 cited at (R. K. Bakkegaard et al., 2016). The exact number of forest-dependent people in Bangladesh is unknown due to lack of national statistics. However, (L. M. Rahman, 2016) estimated that the figure is 19 million people. It has been also estimated that fuelwood constitutes 41% of total biomass cooking energy with some 84% of households using fuelwood for cooking in Bangladesh (GOB, 2013). In addition, trees and forests provide ecosystem services such as water purification, climate regulation, nutrient cycling and a myriad of others that the wellbeing of the communities ultimately relies upon. The current status of available resources and demand related to tree and forest products are not well known in Bangladesh, and thus tree and forest related services are not properly reflected in national statistics. For example, GDP contribution of forestry is 1.39% in the fiscal year of 2015-2016 (BBS, 2017).

Quantification of ecosystem service values and resources of trees and forests would enable their improved protection and more sustainable use. The Bangladesh Forest Inventory (BFI) aims at providing robust estimates of the interaction between human activities and trees and forests via regular assessment thereof. It is expected to provide forest resource-related information for national policymaking and forestry planning. With a view to monitor the interaction between humans and trees and forests, a cost effective, consistent and reliable methodology is important for the Bangladesh Forest Inventory. A national-scale socioeconomic survey methodology has been prepared and passed preliminary testing in the field. The survey will provide information related to the contribution of trees and forests to incomes, employment, governance (e.g. conflict management and equity), social forestry (e.g. allocation of resources), biodiversity (e.g. invasive and native species), energy (e.g. fuelwood), the impact of disturbances to tree and forest resources, and recreation/tourism. The survey covers the five zones recognized under the Bangladesh Forest Inventory. These zones are Coastal forest, Sundarbans, Hill forest, Sal forest and Villages. The zones cross the boundaries of government administrative districts. A total of 6135 households will be interviewed as per the survey design (GOB, 2017).

This manual has been developed to set the common standard for the field enumerators to collect quality socioeconomic data from the field with a view to achieve socioeconomic objectives for the Bangladesh Forest inventory.

1.1   OBJECTIVE OF THE SURVEY AND SCOPE OF THE MANUAL

The objective of the survey is to assess the interactions between people, tree and forest resources and the role of tree and forests for the livelihoods of people. Value of ecosystem services will be better understood through the integration of the biophysical and the socio-economic survey of

the BFI. The survey will provide information related to contribution tree and forest income, employment, governance (e.g. conflict management, equity), Social forestry (e.g. allocation of resources), Biodiversity (e.g. invasive species, wildlife), energy (e.g. fuelwood), impact of disturbances to tree and forest resources, and recreation (tourisms). Thus this survey will enable us to estimate the economic value of the ecosystem services (ES) provided by different forest zones in Bangladesh, and thus the contribution of forestry sector to country's GDP more accurately.

1.2   ZONES OF THE SURVEY

As mentioned above, the survey will cover the five zones identified under the BFI: Hill, Sal, Sundarbans, Coastal and Village zones (see Figure 1). *Table* 1 *presents* Socio-economic and biophysical characteristics of the five zones.
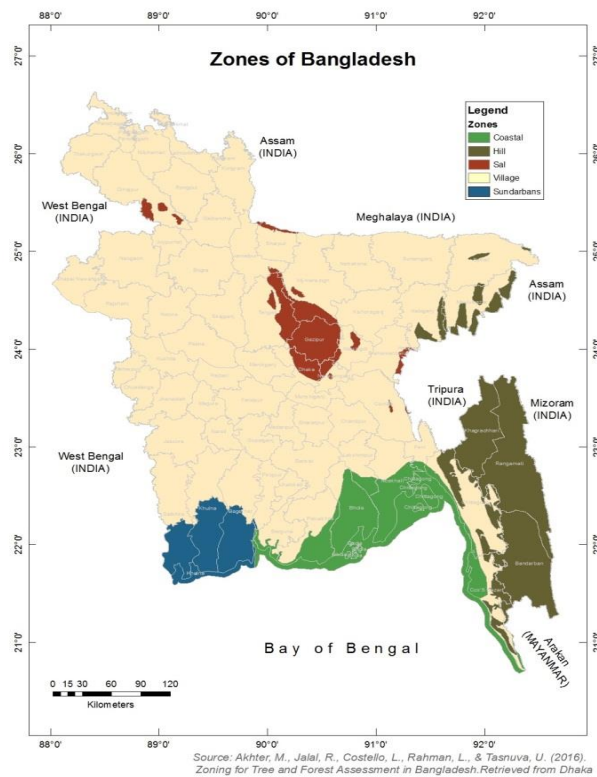
Figure 1: Zones for the Bangladesh Forest Inventory (Akhter et al., 2016)

The characteristics of each zone are described next.

1.2.1   CHARACTERISTICS OF FIVE ZONES

1.2.1.1   Coastal Zone

The total area of the coastal zones is 1209000 ha (Akhter et al., 2016) and the presence of terrestrial land and water is 39.04 % and 60.96% respectively (Jalal, Vollrath, Udita, & Henry, 2016). The

average precipitation is 2870 mm (Min: 2267 mm, Max: 3698 mm) (Hijmans, Cameron, Parra, Jones, & Jarvis, 2005)). The road length is 4110715.723 m in which 24.31% of road is extremely hard to reach and 1.42% very hard to reach area respectively (Ahmed & Hassan, 2012).

1.2.1.2   Hill Zone

The zone is situated in the Chittagong Hill Tracts (Rangamati, Khagrachari and Rangamati), parts of Chittagong and Cox's bazar districts and on low hills in the Sylhet district. The main tree species are Garmari (*Gmelina arborea*), Segun (*Tectona grandis*), Chapalish (*Artocarpus chama)*, Telsur (*Hopea odorata*), Koroi (*Albizia procera*), Garjon (*Dipterocarpus alatus*), Champa (*Michelia champaca)* etc. The total land area of the Hill zone is 1714000 ha (Akhter et al., 2016) in which terrestrial land 96.74% and water 3.26% respectively(Jalal et al., 2016). About 16.16% of total land area is covered by reserved forest (276900 ha). The average precipitation is 2720 mm (Min: 2061 mm, Max: 4370 mm) (Hijmans et al., 2005). About 51.60% is classified as extremely hard to reach, and 15.46% as very hard to reach area, according to (Ahmed & Hassan, 2012).

1.2.1.3   Sal Zone

This zone lies in the districts of Dhaka and Tangail in Dhaka division, the district of Mymensingh in the division of Mymensingh, and the districts of Rangpur, Dinajpur in the division of Rangpur and the district of Rajshahi in the division of Rajshahi. The dominant tree species is Sal (*Shorea rubasta*). *Terminalia bellerica*, *Albizzia procera*, *Lagerstroemia* spp and *Ficus* species are seen in the Sal zone as mixed Sal. The total land area of the Sal zone is 534800 ha (Akhter et al., 2016) in which terrestrial land 96.78% and water 3.22% (Jalal et al., 2016). The average precipitation is 2040 mm (Min: 1804 mm, Max: 2462 mm) (Hijmans et al., 2005). The road length is 2484824.10 m in which 12.01% of road is extreme hard to reach area (HTR), 1.26% moderate HTR and 6.26% very HTR (Ahmed & Hassan, 2012).

1.2.1.4   The Sundarbans

This zone is the largest mangrove forest in the world. It lies on the delta of the Ganges, Brahmaputra and Meghna rivers in the Bay of Bengal. The total area of Sundarbans is 609200 ha (Akhter et al., 2016) in which terrestrial land is 62.26% and water 37.74% (Jalal et al., 2016). The Average precipitation is 2004 mm (minimum- 1783 mm and maximum- 2343 mm) (Hijmans et al., 2005). The road length is 96963.07 m in which 33.87% of road is extreme hard to reach (HTR) and 0.04 % is very HTR (Ahmed & Hassan, 2012). The dominant species is *Heritiera fomes* with varying proportion of *Excoecaria agallocha* (Gewa). The next most abundant species is *Xylocarpus mekongensis* (Passur), which frequently grows with *Bruguiera gymnorrhiza* (Kankra), *Avicennia officinalis* (Baen), (*Nypa fruticans*) Golpata etc. The area is known for its wide range of fauna, including 260 bird species, the Bengal tiger and other threatened species such as the estuarine crocodile and the Indian python.

1.2.1.5   Village

The village zone is very important as a source of tree products in Bangladesh. The total land area is 10890000 ha (Akhter et al., 2016) in which terrestrial land is 92.12% and water is 7.88% (Jalal et al., 2016). According to Douglas, 1981, village forests contribute about 80 to 82% of forest products cited at (FAO, 2000). This zone also provides bamboo and trees including palms the main tree

species are Mango (*Mangifera indica*), Jackfruit (*Artocarpus heterophyllus*), *Cocos nucifera, Samanea saman,* and *Areca catechu.*

Table 1: Socio-economic and biophysical characteristics of the five zones under the Bangladesh Forest Inventory

Zones	Total Area (ha)	Total Union	Tree Cover (ha)	Total Household (numbers)	Population (numbers)	Population density (people per sq. km)	Literacy rate (%)	Toilet Facility with sanitary (water sealed) (%)	Source of Drinking water (%) Tube well	Housing Tenancy owned (%)	Ethnic minority people (%)
Coastal	854,955	249	76,129	949,778	4,611,242	539.17	47.26	16.69	90.25	88.40	0.12
Hill	1,784,919	290	911,672	870,386	4,337,277	243	47.05	13.03	62.515	79.90	23.32
Sal	530,649	395	113,171	3961881	16,882,367	3020	58.68	36.68	47.321	45.045	1
Sundarbans	601,285	5	379,815	6577	26,014	4.33	33.56	7.60			0.15
Village	10,827,166	6,978	1,090,668	27270677	121730400	1012	47.05	24.20	79.17	77.41	1
Total	14,598,973	7,917	2,571,455	33059296	147587300						
References	(BBS, 2015)	(BBS, 2015)	(P. V. Potapov et al., 2016)	(BBS, 2015)	(BBS, 2015)	(BBS, 2015)	(BBS, 2015)	(BBS, 2015)	(BBS, 2015)	(BBS, 2015)	(BBS, 2015)

2 SURVEY DESIGN AND SAMPLING

The samples are selected according to a random stratified sampling design. The strata were constructed based on two criteria: (1) the variable tree cover/number of households/area (tree cover/hh/ha), which was considered as a good indicator of the complex interaction among humans, trees and forests and the eco-climatic classification adopted by the BFI, which divides the country into 5 zones, which are, as follows: Coastal, Sundarbans, Hill, Sal and Villages (Akhter et al., 2016). The variable (tree cover/household/area (tree cover/hh/ha)) was calculated for each union/ward, based on the information provided by the 'Population and Household Census - 2011' dataset (BBS, 2015) and Tree cover in 2014 (ha) from Bangladesh Forest Department (P. Potapov et al., 2016). The population was divided into 4 classes of tree cover/number of households/area, the extent of each class being identified using a quartile function. The strata were constructed as a combination of the 4 classes of tree cover/number of households/area and the 5 zones. That is, each zone was divided into 4 classes of tree cover/number of households/area. As a result, 20 strata were defined. Once the strata have been identified, a random sample of unions or wards is selected from each, the drawing being made independently in each stratum. A total of 6400 households from 320 unions/wards were selected for the final socioeconomic survey to represent national scale (GOB, 2017). Table 2 presents number of unions and households under different zones. The list of unions are presented at the annex 12 to 16.

Table 2: presents number of unions and households under different zones.

Zone	Strata	Number of unions	Total numbers of Households to be surveyed from each stratum
Coastal	Coastal1	16	320
	Coastal2	16	320
	Coastal3	16	320
	Coastal4	16	320
Hill	Hill1	16	320
	Hill2	16	320
	Hill3	16	320
	Hill4	16	320
Sal	Sal1	16	320
	Sal2	16	320
	Sal3	16	320
	Sal4	16	320
Village	Villages1	16	320
	Villages2	16	320
	Villages3	16	320
	Villages4	16	320
Sundarbans	Sundarbans1	16	320
	Sundarbans2	16	320
	Sundarbans3	16	320
	Sundarbans4	16	320
Total		**320**	**6400**

3 PRE-FIELD ACTIVITY OF SURVEY

3.1 Organizational structure

3.1.1 The BFI unit

The BFI unit in the Forest Department is responsible for socio-economic monitoring of BFI and other tasks including coordination and communication with the national institutions, dissemination of information through the national information system and reporting (L. Rahman & Henry, 2016). The BFI unit provides the logistical support and supervision to the field personal. The BFI unit will ensure timely completion of field work, quality data collection and homogeneity among field teams. The BFI team controls and coordinates the data collection process, transfer and validation of field forms, to make it ready for data entry. The Figure 2 presents organizational structure of the socioeconomic survey.
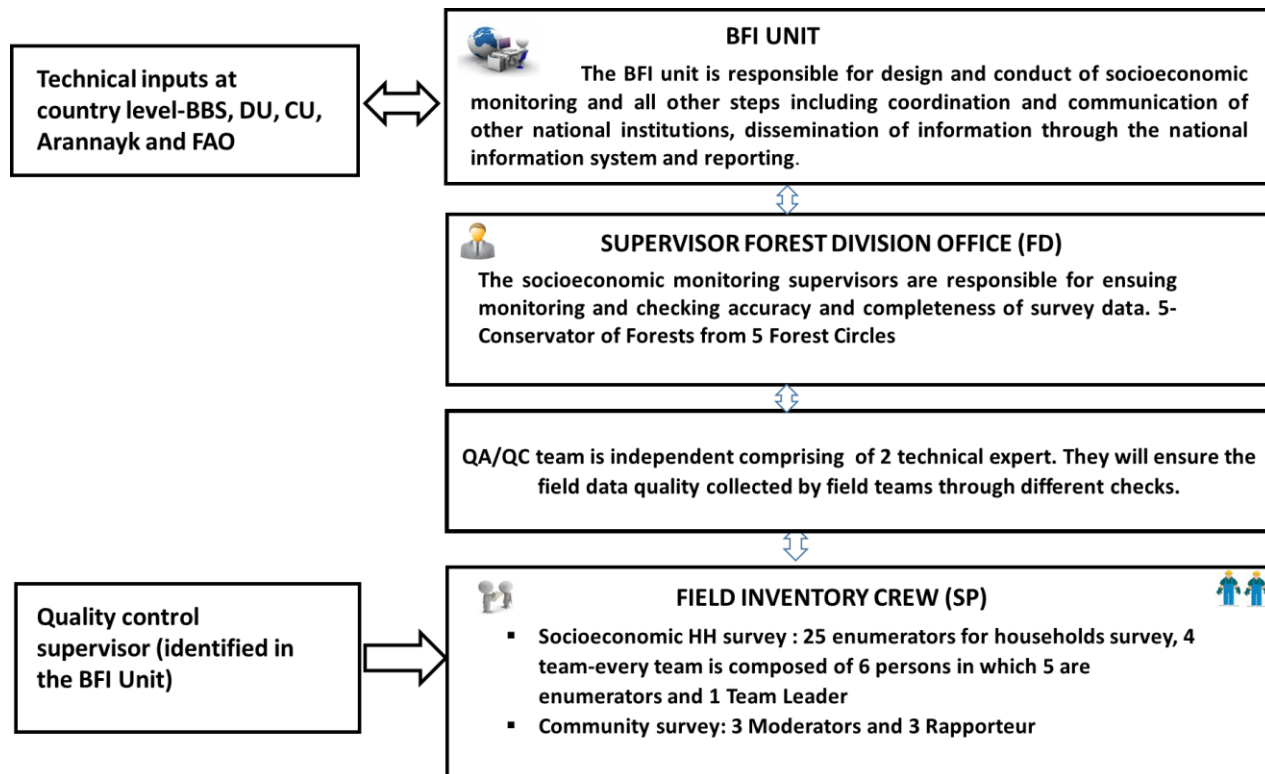
Figure 2: Organizational structure of the socio-economic survey of Bangladesh Forest Inventory

3.1.2 The supervisors

Field administration of Bangladesh Forest Department are divided into 9 forest circles headed by a Conservator of Forests (BFD, 2016). Each of them except Conservator of Forests, Wildlife and Nature Conservation Circle will serve as a Supervisor for the socioeconomic survey in line with biophysical survey. Supervisors will be responsible for ensuring the execution and quality data collection in this survey. Supervisor will provide support and coordinate to all field teams' activities and QA/QC field activities. The supervisor should provide immediate response and support to field teams if an emergency arises. Supervisor will convene meeting with field teams and QA/QC teams to remove any errors comes across during his visit.

3.1.3   The field team (Service Provider)

A Service Provider (SP) name Centre for Natural Resource Studies (CNRS) has been hired through tender. SP recruit field team for socioeconomic data collection. Four teams are formed according to the zone. Each team will consist of six members: The Team Leader (TL), and five Field Enumerators (FE). The responsibilities of TL and FE are described in the next sections. The field team will be accompanied by local people as per as possible and ethnic minority community member during the survey in the Hill and Sal zones. Special attention will be given to ensure the gender balance (1:1) during selection of field enumerator (FE). While selecting the SP (i.e., field team members) special preferences will be given to the candidates with background in graduates' forestry, environmental sciences, social sciences and statistics. And SP have 5 years of relevant experience in conducting socioeconomic surveys related to natural resources, forestry and environment at national and regional scale using both paper and digital or tablet survey. The SP will be responsible for collecting HH and community survey data from the selected unions as per survey design as well as submitting the filled in household and community survey data both paper and digital based to BFI unit every week or according to the agreed activities with definite time frame.

3.1.3.1   Team leader

The team leaders are responsible for coordinating their respective survey teams, checking the work done by the enumerators and interacting with survey coordinators about any problems or needs that arise. Every day the team leaders must do a series of checks on every survey to ensure that the surveys were done properly and are not missing any information. The team leaders must sign the survey to verify its accuracy. If surveys are inaccurate or are missing information, they must send the enumerator back to the household to complete the information. Only when the survey is done accurately should they sign off on the survey. Team leader are also responsible for carrying out the community surveys. The team leaders will coordinate the activities of the survey teams and report to coordinators on any issues/problems that arise.

Specific responsibilities

- Responsible for coordination and monitoring the field enumerator for data collection, checking and coordinating the field survey
- Organize Focus Group Discussions (FGDs) for community surveys, check the work done by enumerators and interact with BFI unit about any problems or needs that arise
- Responsible for monitoring effective use of equipment and ensure the equipment is not damaged
- Daily communication with BFI team located in Dhaka as well as submission of activity report daily via mobile tablet to the BFI unit
- Record keeping all the collected socioeconomic questionnaire (paper based)
- Ensuring the sending of collected socioeconomic data through tablet
- Checking up on all the enumerators in the field during the data collection
- Maintaining strong relationships with local leaders and government offices for effective data collection

3.1.3.2 Field enumerators

Enumerators are those responsible for carrying out the interview with selected HHs. They will work under the leadership of the team leaders. They should be polite and respectful with the interviewees and household members.

They must be certain that the information they are collecting is accurate. They need to check to see that the data is consistent across tables and that all tables in the survey are adequately completed. Enumerators must check surveys upon completion and sign verifying the accuracy of the survey. If data is found to be inaccurate, enumerators will be required to redo the survey to collect accurate information.

Specific responsibilities

- Responsible for socioeconomic data collection through interview with the randomly selected households
- Ensure clear and authentic data collection from the households
- Responsible to send the daily collected data from the households through tablet computers
- Responsible to record all the paper-based data (questionnaires)
- Work under the leadership of team leader
- Enumerators must check over surveys upon completion and sign the survey to verify its accuracy
- Enumerators will be required to return to the households to collect accurate information, if data is found to be inaccurate
- Work as per direction of BFI team and team leader
- Responsible for keeping the equipment in good condition
- Maintaining strong relationships with local leaders (Union Parishad Council) and the government office (Forest Department) for identifying the households
- Organizing FGD with support from team leader

3.1.4 QA/QC team

Five QA and QC teams are formed under the BFI socioeconomic unit which will contain representatives from Bangladesh Bureau of Statistics (BBS), Forest Department (FD), Dhaka University (DU), Chittagong University (CU), Khulna University, Food and Agriculture organization of United Nations (FAO) and Arannayk Foundation (AF). Each team consists of two members and they will check the data collection in the field during and after the survey to ensure high quality. The responsibilities of QA/QC teams also include spot visits during the data collection, check the coding while filling in the paper-based survey questionnaires as well as entering data in the tablet computers following an QA/QC manual. The role of QA/QC team is presented in the Figure 3 in line with biophysical QA/QC team (Costello & Henry, 2016).
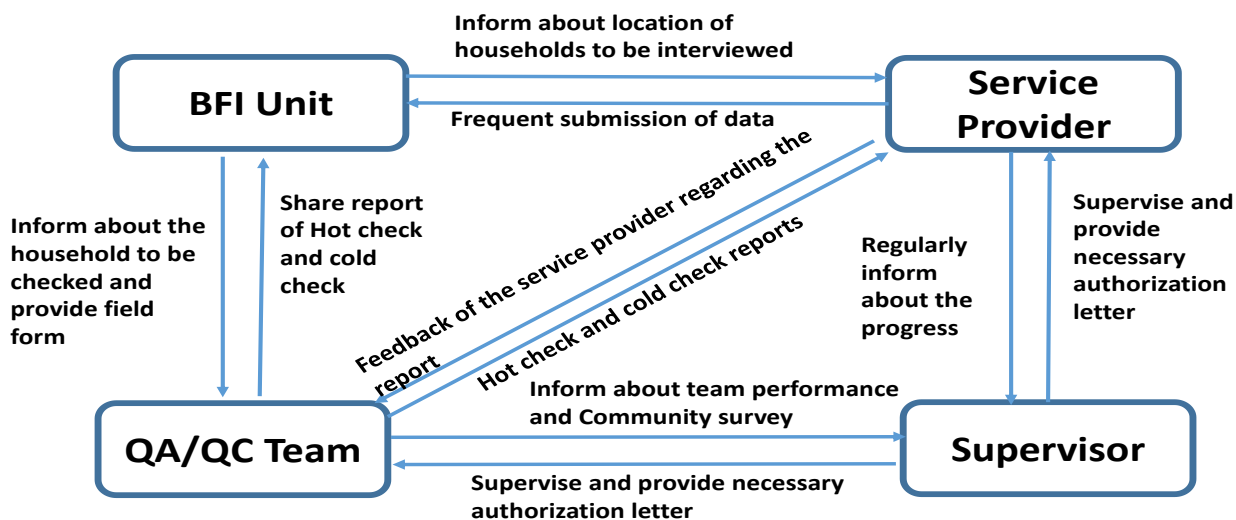
Figure 3: The role of QA/QC teams and field survey implementation in the field

3.2   Field survey plan

The teams will start the households (6,400) and community survey (100) in the year of 2017. The team will collect the information based on the five zones. Each team is responsible for one zone. As per survey design 1280 households in Coastal, 1280 households in Hill, 1280 households in Sal, 1280 households in Sundarbans and 1280 households in villages will be surveyed. The total survey period will be 150 days (five months) and total effective working days will be 90 days excluding travel days Table 3.

Table 3: Month-wise households and community survey plan

	Months (2017-18)					
Activity	1	2	3	4	5	Total
Household survey	1280	1280	1280	1280	1280	6,400
Community survey	12	22	22	22	22	100

3.2.1   Household survey

The objective of the household survey is to collect information from the tree and forest resources users about their socio-economic characteristics, their economic dependency on tree and forest resources, the resilience of households to changes in availability of tree and forest resources, equity of tree and forest resources particularly wood energy, forest governance, laws and compliance to support sustainable forest management and well-being of the community people.

- 20 HHs will be interviewed from each selected unions as per survey design.

- Four households per day, 20 days of household survey work per month, five months' duration
- On average 1,600 households per month, each team is responsible to collect 320 household's data per month.

3.2.2   Community survey

A community survey will be conducted to collect the information related to trends of population size, land use, access to services, price of tree and forest products based on market value. The survey will be administered among the community people using FGD (Focus Group Discussion) methodology where 8-10 participants will be attended in the selected union or ward. A checklist (questionnaire) will be used to collect the information. Distribution of community survey across the zones is presented at Table 4.

- One FGD per day, 20 days of group discussion per month (average 20 FGD's per month)

Table 4: Distribution of community survey across the zones

Zones	Number of Community Survey
Coastal	20
Hill	20
Sal	20
Villages	20
Sundarbans	20
Total	**100**

3.3   Materials and methods

The survey will be carried out using both paper and tablets. The field enumerator will receive and use:

Paper based
1. *Household survey instrument (questionnaire)*: To be filled in based on the interview with the household head;
2. *Enumerator guide*: Contains all instructions on how to complete the survey; and
3. *Code sheet*: To code the answers to specific questions given by respondents.

Tablet based

1. Open Foris field form (i.e. questionnaire) including inbuilt code

Besides these, enumerator will receive the materials listed in Table 5 for smooth execution of the socioeconomic survey.

Table 5: Socioeconomic survey instruments

SL no.	Particulars	Number
1	Tablet	25
2	Rain coat	30
3	Cap	30
4	T-shirt,	30
5	Backpack	30
6	First aid kit	30
7	Writing board,	30
8	Pencil and Pen	30
9	Eraser,	30
10	Sharpener,	30
11	Water bottle	30
12	Calculator	30
13	Torch light with battery,	30
14	Pencil and pen box	30
15	GPS	15
16	Tablet cover	25
17	Pen drive	25
18	Power Bank	25
19	Maps	As necessary
20	Enumerator manual	25
21	Household questionnaire	6400
22	Community questionnaire	100
23	Maps	As necessary

Note: Three GPS (brand Garmin) will be provided to each team to record the coordinates of the survey areas.

3.4 Training process

3.4.1 Orientation of field team

Orientation training will be provided to the field teams. The field teams will know the objectives of the survey, data collection procedures, quality data collection and data submission.

3.4.2 Filling in the household survey questionnaire

The field survey team will receive training on how to fill in the field survey questionnaire on both paper and tablet. Please see Section 8 for detailed instructions to enumerators for completing the survey questionnaires.

4 FIELD SURVEY PROTOCOL

This section describes the full protocol of field enumerator and team leaders during the data collection from the households and community survey. Introduction of enumerator, enumerator role, interview time management, interview settings, coding option, confidentiality, Interview settings, duration of interview, handling of critical questions, review of findings and filling up the paper-based field and digital form (questionnaire) are discussed briefly.

4.1 Introduction of enumerator during field survey

Enumerator/team leader will start with greetings through the local language to each selected HH. Then he/she will explain the purpose of the survey to the interviewee and show him/her that he/she (interviewee) is important for the success of our national programs. Enumerators/team leaders should be punctual and respect appointments and make sure that the respondent is at ease and knows how long the interview will take. The enumerator must avoid raising false expectations of possible future benefits and promise confidentiality as some of the information is sensitive. The enumerator will ask questions clearly and in a kind manner and write down the answer in a logical and legible way.

4.2 How to carry out interviews

Face-to face interviews are a way to get information directly from the respondent being interviewed and should not be viewed as a mechanical process, but rather as an art. It should be a normal, smooth conversation between two persons, in a manner that does not influence or lead the answers, nor allow external suggestion from other people. In order to carry out the interview in a proper manner, the following rules should be respected.

4.2.1 Identify respondents to interview

The household will be chosen by the team leaders and assigned to the enumerator. The enumerator should identify the HH through GPS coordinate (dicussed at 4.3.11, then identify the head of the HH or a direct substitute that can give answers instead of the head of HH with the help of local leader or any local volunteer. The enumerator will brief the interviewee as to the objective of the survey to build rapport as well as introduce himself/herself. Then the enumerator will request the interviewee to answer some questions to support the Bangladesh Forest Department to evaluate the relationship between trees, forest and people. Upon receiving consent from the interviewee, the enumerator will continue to ask questions and fill the questionnaire as well as in the Open Foris collect mobile.

4.2.2 Interview settings

It is very important that the interview is carried out privately without external presence or influences since other people could bias the output and thus the result of the survey. To avoid other persons' presence that can interfere with the interview, the enumerator will need to explain the importance of confidentiality to the interviewee with tact.

In case of female respondents, the enumerator (female of course) needs to get into their homes to talk to the female respondents. In most of the areas in Bangladesh, it is highly likely that women by themselves will neither be willing nor be allowed to talk to a male enumerator. It was experienced that many women will not even come to their yard to talk to the interviewer no matter the sex of the interviewer. It is a matter of regret that, in many cases, quantitative information cannot be provided by female respondents' due to their lack of knowledge in specific issues (e.g., household total income) since these are dealt with male members of the family almost all the time.

4.2.3 Confidentiality of information

Before starting the interview, it is very important to let the household know that information given are and will remain secret. Only respondent name will be recorded for the purpose of cold checks (i.e. visit the HH after interviewed the enumerator). The information provided by the interviewee will be very important for the survey and will be anonymous and used for statistical analysis.

4.2.4 Asking questions in the order

Never change the order of the questions in the questionnaire. The questions follow one another in a logical sequence; to change that sequence could alter the intention of the questionnaire. Asking a question out of sequence can affect the answers you receive later in the interview.

4.2.5 Duration of interview

Time is a crucial thing that should be considered before starting a face to face survey. If the face-to-face survey process goes on for longer than expected, the respondent might get bored or irritated. In such a situation the respondent may (i) provide incomplete information to save his/her time or (ii) false information in order to speed up the process (iii) biased information out of fear or anger and so on. However, the field enumerator should be trained and mentally prepared to complete a single survey (of a questionnaire) in about 45-55 minutes in two steps: (i) Providing a brief introduction and objective of the survey to get acquainted with the respondent so that s/he feels motivated to cooperate with the enumerator and (ii) conducting the survey. While there is no hard and fast rule on how to split the survey time into the two sections, the data collector should try to keep the first section as brief as possible to allow enough time for the second section.

4.2.6   Replacement of respondents

The respondent households will be selected randomly from the household listing of the enumeration area. Some households may not be found existing household list from the present household listing. If any differences are found between the preset household listing and present households, field enumerators must inform the team leaders to take immediate action. Team leaders must notify the BFI socioeconomic team including survey coordinators for replacing the respondents. BFI socioeconomic team will notify the replaced respondents' names to the team leaders and field enumerators for interview.

4.2.7   Respondents unavailable in the selected HH

During the interview process, it may happen that respondents are unavailable at the household. The field enumerator must inform the respondent one day before of the survey (if possible). If the head of the household is not available, enumerators must find respondents from the households who have a clear idea of the household's income, expenditure etc. The respondent must be over 18 years old.

4.2.8   Refusal from respondents

Some respondents may not be interested in to participate the survey. Field enumerators must brief respondents about the objectives of the survey and reassure that all information provided by the respondents will be kept confidentially. This information will help improve the quality of life of tree and forest-dependent people. If the respondents do not agree to provide the information, the field enumerator must inform the team leader. The team leader will assign another respondent/household within the survey area and mark them as non-respondents.

4.2.9   Review of findings

Once the interview is done, the enumerator should evaluate the survey and double check that nothing is missing and that there are no incomplete answers. If that's the case, the enumerator should ask again. Once finished he/she should thank the household members for him/herself and on behalf of FAO, FD and BBS. Before giving the filled in survey form to the team leaders, enumerators must check carefully that nothing is missing and there are no mistakes. If everything is fine he/she can give the survey to the team leaders, otherwise he/she should go back to the HH to add what is missing/correct what is mistaken. When the team leaders receive the survey, he/she will check that nothing is missing, everything is clear and understandable and there are no mistakes. If everything is fine, he/she will approve the survey and pass it on to the appropriate coordinator. If there are problems with the survey, he/she will give it back to the enumerators who will go back to the household with a detailed list of what needs to be corrected.

4.3   General instructions for completing survey

The data will be taken from the head of HH through face to face interview. If head of the HH is not present in the house, then identify spouse or other HH member who knows about HH livelihood in the last 12 months. The respondent age must be 18 years or over. This section provides general instructions for collection of data during the interview.

4.3.1   Data collection format

Procedures in this manual are ordered to coincide as much as possible with the order in which variables are recorded in the field. Information that is infrequently used or that is included only for documentation purposes is provided in the appendix.

Each section of the field guide begins with a general overview of the data elements collected to provide the background necessary to prepare enumerators for data collection. Descriptions of data elements follow the format provided below:

Item number; data item name:
     [table_column_name]

When collected	Specific criteria for when variable is recorded
Field width	Number of digits available to enter in the data sheet
Tolerance	Acceptable range of measurement
Values	Actual values/codes of variables

Tolerances may be stated in +/- terms or number of classes for ordered categorical data elements (e.g., +/- 2 classes); in absolute terms for some continuous variables (e.g., +/- 1 cm); or in terms of percent of the value of the data element (e.g., +/- 10 percent of the value). For some data elements, no errors are tolerated (e.g., household number).

4.3.2   Units of measure

This field guide will use METRIC units as the measurement system. The measurements are described below:
- Length in meter (m)
- Weight in kilograms (kg)
- Volume in cubic meter (m^3)
- Land area in acre or decimal
- Geographical coordinates in degree decimal
- Currency in Taka (BDT)

4.3.3   Coding options

Some questions have unique code. The enumerators must put the code number in the questionnaire and in the tablet very carefully. This is the main task for the questionnaire and tablet survey. If the enumerator enters the wrong code number, the entire interviewing process will be useless. For example, HH question: What types of energy are used for cooking in your HH except electricity? The code options are 1= Firewood, 2 = Leaves and other tree biomass 3=Charcoal, 4= Briquette, 5 = LP Gas, 6=Kerosene, 7=Biogas, 8=Cow dung, 9=Agricultural residues 96=Others (specify). If the interviewee answered 1 (i.e. Firewood) but enumerator marked in the field form 5 (i.e. Electricity), that means the wrong information has been collected. Same mistakes might happen while entry the code in the tablet computer.

For example:

Types of energy used for cooking in the HH

[type_energy_use]

When collected:	All	
Field Width:	1 digit	
Tolerance:	No errors	
Values:	Code	Description
	1	Firewood- is any wooden material that is gathered and used for fuel.
	2	Leaves and other tree biomass
	3	Charcoal- a porous black solid, consisting of an amorphous form of carbon, obtained as a residue when wood, bone, or other organic matter is heated in the absence of air
	4	Briquette- a block of compressed charcoal or coal dust used as fuel
	5	LP gas- Liquefied petroleum gas used as fuel in heating appliances, cooking equipment, and vehicles.
	6	Kerosene- a light fuel oil obtained by distilling petroleum, used especially in jet engines and domestic heaters and lamps and as a cleaning solvent.
	7	Biogas- Biogas typically refers to a mixture of different gases produced by the breakdown of organic matter in the absence of oxygen. Biogas can be produced from raw materials such as agricultural waste, manure, municipal waste, plant material, sewage, green waste or food waste. Biogas is a renewable energy source.
	8	Cow dung-is animal feces that has been dried in order to be used as a fuel source
	9	Agricultural residues-straw and other materials collected from agricultural field for fuel purposes
	96	Other (specify)

4.3.4 Handling the "Other" type of option

Enumerators should always try to include all the answers provided by the respondents. Many questions include a response option of ("Other) to record responses that are not covered by any of the pre-coded responses. When you use this code (96), also specify the name of the option both paper and tablet.

For example: What are the conflicts usually associated with?

When collected:	All	
Field Width:	1 digit	
Tolerance:	No errors	
Values:	Code	Description
	1	Land ownership
	2	Access to tree and forest resources
	3	Forest land boundaries
	96	**Other (specify)**

4.3.5 Handling the critical questions

Enumerator will find some questions without coding for example household question: How many months per year are they employed? In this case an enumerator should try to get exact answer from the respondents.

4.3.6 Ranking questions
Enumerator will find some ranking questions for example community question: Please rank three products for cash. The enumerator will note down the three most important cash products based on respondent answer (1 being the most important and 3 being the least important product)

4.3.7 Rating questions
Enumerator will ask rating question to the respondent. The main purpose of the rating question is to compare the items using a common scale. For example, HH question: What is the severity of disturbances? The example uses a rating scale of 1 to 5 to rate the aspects of severity of disturbances over tree and forest resources.

For example: What is the severity of disturbances?

When collected:	All	
Field Width:	1 digit	
Tolerance:	No errors	
Values:	Code	Description
	1	Very low
	2	Low
	3	Medium
	4	High
	5	Very high

4.3.8   Dealing with if questions

Interviewer will find some conditional questions in the HH and community survey questionnaire. There is an instruction in the questionnaire to deal with if questions. For example, HH survey questionnaire: Are you involved with any social forestry activities? The options are 0= No, 1= Yes. If the answer is no, then proceed to next question no. 8.6.21 and if answer is Yes, then please asking the questions 8.6.17.

4.3.9   Information Inbuilt in the Open Foris

While collecting the data through tablet, most of the information (e.g. Area identification variables except village name) and other HH survey questions and codes are inbuilt in the Open Foris software. The interviewer will mark the respondent answer in the tablet. However, some answers need to be typed in the tablet which are not pre-coded in the survey questionnaire. For example, name of the respondent and HH head, HH members, size of land etc. and other type of options.

4.3.10   Data collection using land cover class and satellite maps

Union-wise maps (land cover class and satellite) will be used for collecting the information related to tree and forests products collection from different land cover class. A total of 34 land cover classes are identified to represent the whole country and marked with different legends (Figure 4). The road and growth centres are also located in the land cover class map to identify the exact location from where tree and forest products are collected. The enumerator will ask the questions and respondents will mark the land cover class from where tree and forest products are collected. Then enumerator will write the legend name and coordinate in the paper based questionnaire as well as will put in the Open Foris software. Apart from this, a satellite images will be provided in each selected union to justify the exact location both HH and land cover class (Figure-5).
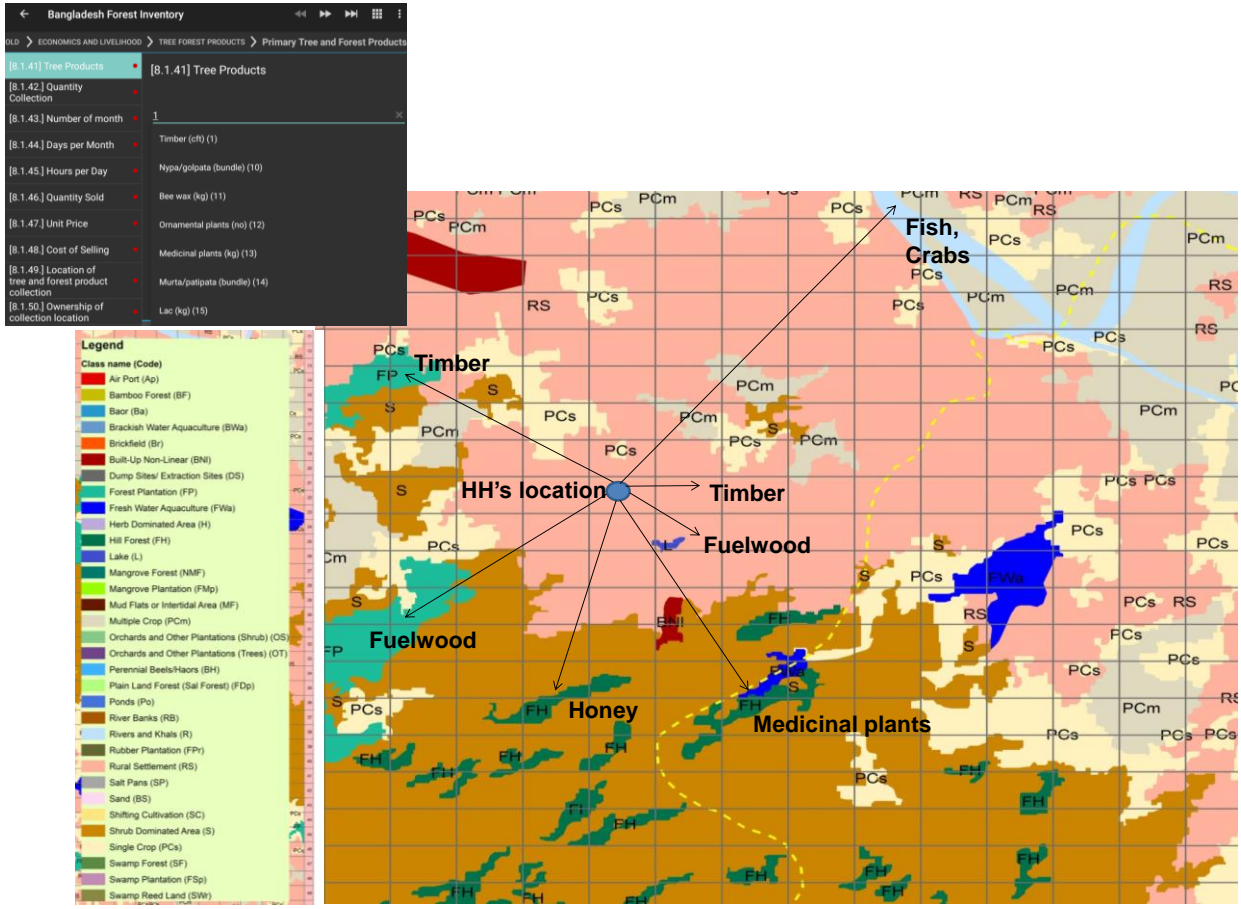
Figure 4: Map showing legend of different land cover classes of the Dokshin Mitachari union
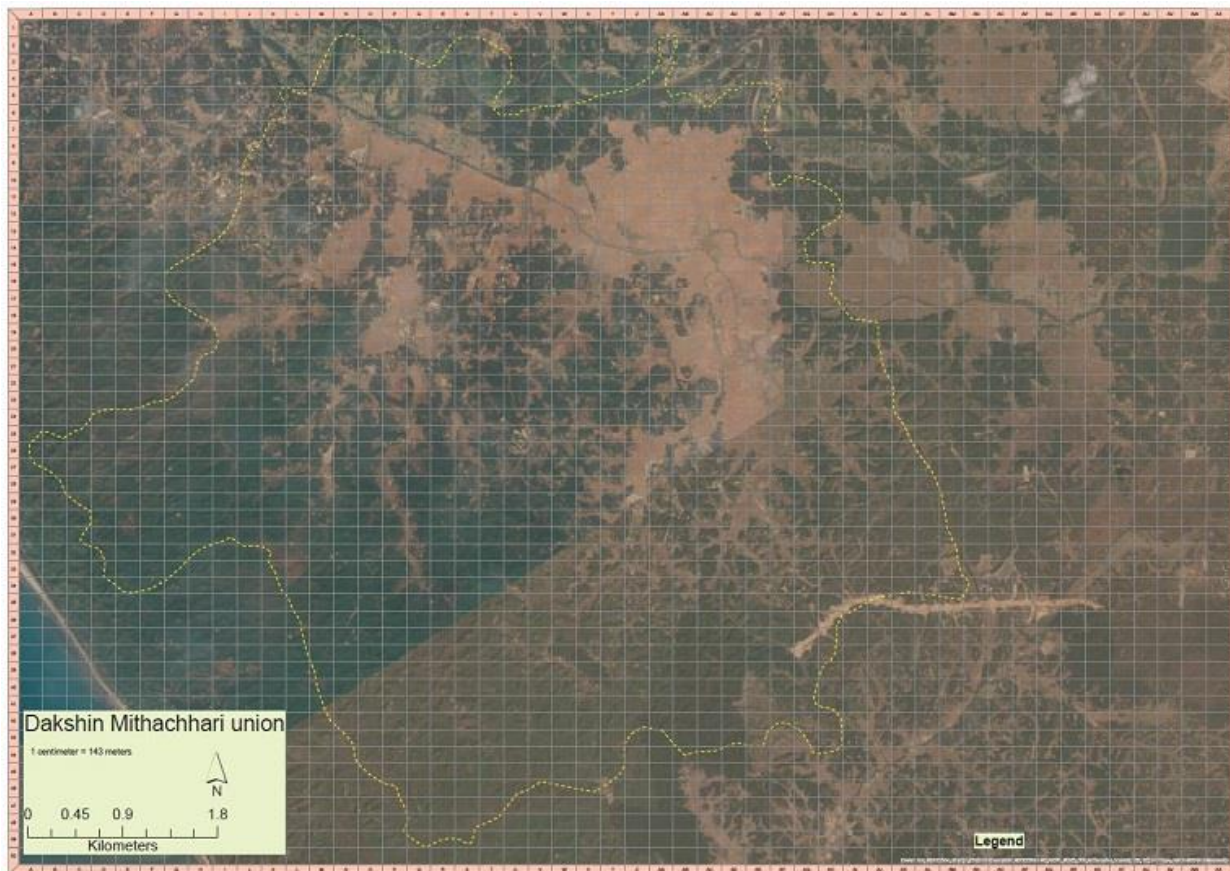
Figure 5: Satellite view of Dokshin Mitachari union for the locating the location

4.3.11 Identification of HH through GPS coordinates

Union wise one google earth and one land cover map will be provided to the survey team. In the map, five different GPS points (i.e., coordinates) will be assigned where rural settlement are present. That means one union has five GPS points and HHs to be identified through using GPS coordinates. For example, in the Bagali union under Koyra upazila of Khulna 5 GPS points have been assigned. The enumerator will have to find out four HHs to be interviewed around the GPS point as indicated Figure 6. It would be great to select at least 1 female respondents out of 4 HHs in each GPS point. The team leader will assign the HHs to be interviewed considering the GPS point. It is necessary to select the 4 HHs in different location if possible 1 North, 1 South, 1 East and 1 West of that GPS point. It is highly recommended to maintain distance from one HH to other.
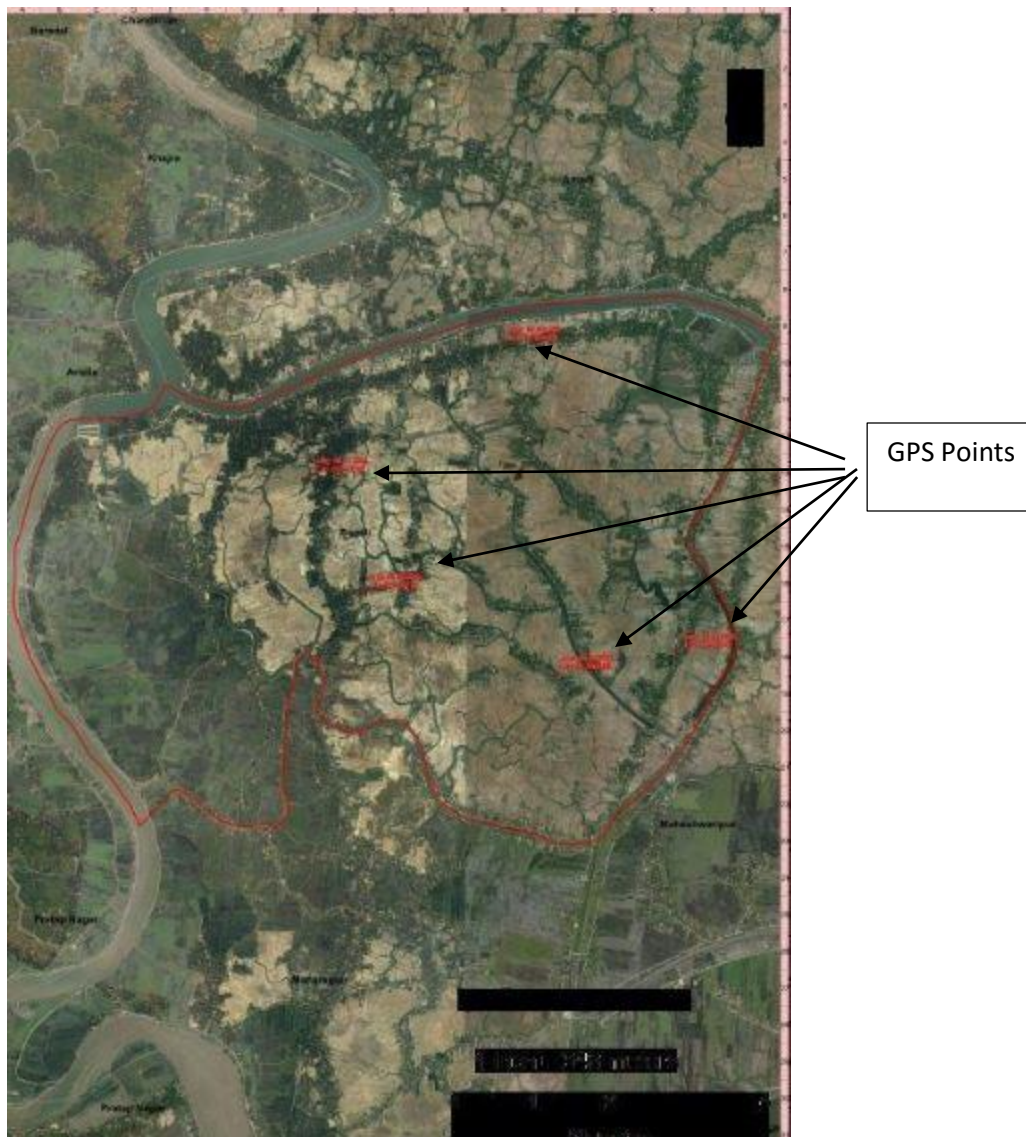
Figure 6: GPS points where households to be interviewed at the Bagali union of Khulna district

4.3.12 Quality check during the field activity

The main purpose of the quality check is to generate datasets without errors as far as possible. Data collection in paper form and entering data to the tablet will be checked very carefully during the field survey. Team leader, survey coordinators and QA/QC team will be the responsible to check the field data during the data collection. If any mistakes are found, the enumerator must correct the errors immediately. Data entry errors are common when data are entered into the tablet, for example, as it is very easy to hit the wrong key or put the decimal point in the wrong place.

At the end of each day/session of data collection, the enumerators and team leaders should go through the checklist for each questionnaire or data collection sheet highlighting any problems with the data. Both team leader and enumerators will sign and date when he/she has done all the checks.

4.4 COMMUNITY SURVEY PROTOCOL

4.4.1 Focus group discussion

The main objectives of the FGD is to collect information about the general use of and contribution of tree and forest resources in the community. It provides an efficient and fast way to capture information about some general patterns in the community than the household survey. Topics covered in the focus group discussion are for that reason those that are particularly relevant at community level and where responses can be suspected to be somewhat similar at household levels (e.g. plant and animal species in the past but rarely seen now-a-days, and awareness of legislation). A total 100 FGDs will be conducted across the five zones: 20 in each zone.

At least 30% of women participation must be ensured to conduct a FGD. However, it is preferable to arrange FGD separately both men and women. That means 10 FGDs will be with men and 10 will be women in each zone. The purpose of conducting two separate discussion is to catalyze and inspire for free and open discussion among participants and to ensure that gender specific answers are captured (men and women might not always have same perception on the importance and use of forest resources). To the extent possible, lead facilitator for the women's group should be a female survey team member, and lead facilitator for the men's group should be a man. In order to accommodate that as many opinions as possible are shared in the group, focus group discussions should be conducted so that community members from the opposite sex are not there to listen and in a way that all participants are allowed to speak and are heard in the discussion.

4.4.2 Selection of focus group discussion participants

Selection of participants, timing and location of the focus group discussions can be arranged with key informants. There are three principal scenarios for arranging the focus group discussions, based on the proximity of the community to tree and forest land as well as existence of forest product collectors in the union or FAO will select the union names where to be conducted FGD. It is suggested to conduct the FGDs near the biophysical plots within the union. Selection of unions for conducting focus group discussion based on these three scenarios (see table 1). Ideally there should be 8-10 focus group participants representing various user groups.
The focus group should be representative of:

- Different forest product user groups present in the union;

- Different HHs and socio-economic backgrounds in the union (e.g. not only family members of the key informant);

Different age groups (rule of thumb: at least three participants that are younger than 35 years and at least three participants that are older); When possible, focus group could represent different geographic locations in the union.

Table1: Criteria for selecting the FGD unions

Scenarios no.	Characteristics
1	Tree and forests land in the area or nearby- tree and forest products collectors/harvesters present in the community
2	No forests land in the area or nearby- tree and forest products collectors/harvesters present in the community
3	No forests land in the area or nearby- No tree and forest products collectors/harvesters present in the community

4.4.3   Introducing everyone

A typical FGD starts with the self-introduction of all people present in the discussion. Even though, this group should be composed of people from all corners of the society, forest dependent people should dominate the group.

4.4.4   An Introductory lecture

The speaker or facilitator must deliver a preliminary lecture to the focus group (FG) detailing the objectives of the FGD. Local dialect and zone-specific example and interpretation are likely to help much in this regard.

4.4.5   Question-specific instructions

In addition, there are `question-specific' instructions in the questionnaire. These instructions usually allow a consistency check that has to be made at the time of the interview, or tell how to record an answer.

4.4.6   Neutral probing methods

It is always very important to use neutral probes. By `neutral', we mean that you must not imply to the respondent that you expect a particular answer or that you are dissatisfied with an answer. The reason for probing is to motivate the respondent to answer fully or precisely without introducing bias. Bias is the distortion of responses caused by the interviewer favoring one answer to another.

EXAMPLE OF A BIASED PROBE
QUESTION: What quantity of tree leaves has the HH in total collected during the last 12 months?

ANSWER: or 60 bags.

IMPROPER PROBE: Oh, you mean 60 bags?

(This improper probe is pushing the respondent to say 60 bags when it may be 50 bags)

PROPER PROBE: Was it 50 or 60 bags?

Some respondents have difficulty putting their thoughts into words. Others may give unclear or incomplete answers; still others may be reluctant to reveal their attitudes. You must deal with such factors and use procedures that encourage and clarify responses.

5   USE OF EQUIPMENT FOR FIELD DATA COLLECTION

This section provides information on how to operate equipment used in the BFI. A full list of equipment is provided in the materials and method section.

Field data is collected on mobile tablet devices using the Android application Open Foris Collect. OFC can be downloaded via Google Play store. Information about Open Foris is available at www.openforis.org. Field data should have recoded using the field forms provided to the enumerator. Additional field forms should be carried by field teams at all times.

5.1.1　Data entry using android tablets

Field data is collected using Open Foris Collect Mobile: a mobile data collection application that can be used on any Android device. The devices used for the BFI are the Samsung Galaxy Tab S2 touch pads. The tablets can handle harsh conditions such as rain and dust however should be kept clean and dry as much as possible.

5.1.2　Basic operation
- The on button is used to put the device to sleep. Press the on button for approximately one second to deactivate the screen. This should be done as much as possible to save battery life.
- The screen rotation can be locked by pressing middle button on the top of the device.

Battery life
- Operate the tablet in AIRPLANE MODE throughout the day. This function turns off all connectivity such as Wi-Fi and Bluetooth and will significantly save battery life.
  - o Only turn FLIGHT MODE off when connecting to Wi-Fi to submit the data
  - o To turn FLIGHT MODE on or off, display the setting menu by swiping down on the top right of the screen and selecting or deselecting the FLIGHT Mode icon.
- The tablet should be recharged the night before going to the field

5.1.3　Using Open Foris data collection application

On the home screen of the device Press the icon to launch the application.

Navigating the questions

The OFC data collection form is made up of different section. To open a section to begin data collection, press the green + symbol Figure 7. The pages of the application can be navigated by swiping right or left with you finger. Alternatively, you can use the arrows at the top of the screen. The >>| icon takes you to the next attribute that needs to be entered; it differs from the previous as it skips any field that does not require input.

Many fields are 'required' meaning that if a value is not entered there will be errors. Errors are shown by a red dot. ***All fields with red dots should be completed in full.***
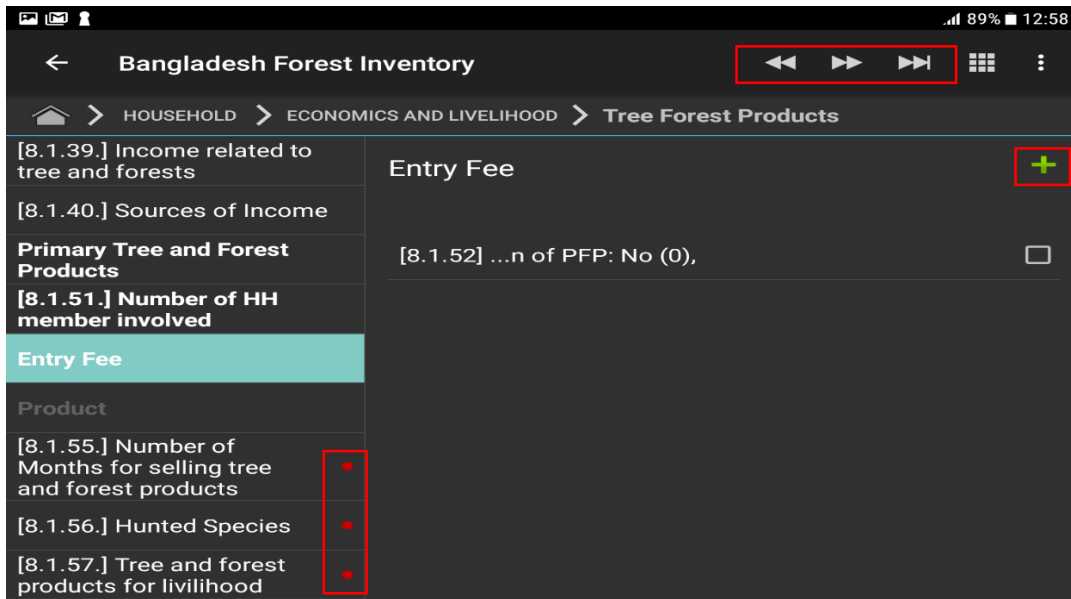
Figure 7: Navigating controls on the OFC application. Red dots show errors that must be corrected.

Data is collected in different ways: directly input as text or numbers, or as a list. Lists can facilitate either individual selections or multiple selections. Individual selection is shown with a circle and multiple selections are shown as a square Figure 8.
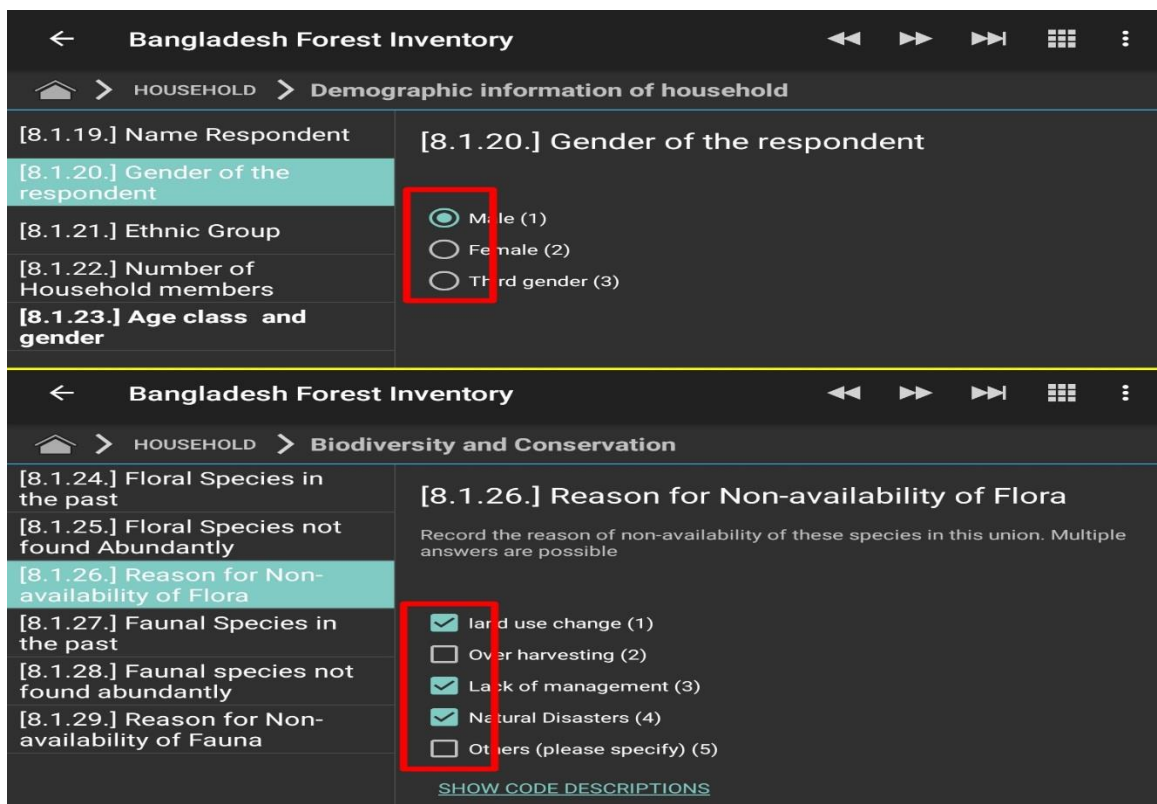
Figure 8: 'Select One' variables displayed with circles (up). Multi-select fields displayed with squares (down).

5.1.4   Recording geographic coordinates with GPS

GPS coordinates are recorded in the device. If GPS points are not recorded in GPS device, enumerator will put the coordinates manually into the GPS device to locate the HHs to be interviewed.   Coordinates are recorded in decimal degrees. All GPS coordinates should be recorded with the Garmin GPS receiver. The tablet device **should not** be used to record coordinates as this is less accurate.

5.1.5   Basic operations

The GPS unit is used to navigate to the HH location and also to find out the assigned coordinates in the maps. The main operations involve navigating to a waypoint (GPS position) and recording a waypoint. The main operating buttons are described in *Figure 9*

FIND	Select to open the search menu.
MARK	Select to save your current location as a waypoint.
QUIT	Select to cancel or return to the previous menu or page.
ENTER	Select to select options and acknowledge messages.
MENU	Select to open the options menu for the page that is currently open. Select twice to open the main menu (from any page).
PAGE	Select to scroll through the main pages.
▲▼◄►	Select ▲, ▼, ◄, or ► to select menu options and move the map cursor.
IN	Select to zoom in on the map.
OUT	Select to zoom out on the map.

Figure 9 Keys on the Garmin GPSMAP 64s (taken from Garmin Quick Start Manual

5.1.6   Acquiring satellites

The device must be communicating with at least four (4) satellites in order to record a position with suitable accuracy. The number of satellites can be checked via the satellites page which is access by scrolling through the main pages (use the **Page** button to scroll through the main functions) at Figure 10.

Figure 10: Pressing the Page Function brings up the main functions of the device.

5.1.7 Create a waypoint

Waypoints are created to record household location that will assist in relocating plot locations. To create a waypoint:

1. Select **Mark**
2. The name of the waypoint can be edited using the arrow keys and pressing **Enter** on the appropriate field. *The coordinates are recorded in decimal degrees.*
3. All the waypoints will be downloaded from the devices at the end of the inventory. The naming convention for the RP is: "RP" followed by the Plot Number.

5.1.8 Finding a waypoint

Finding a waypoint is the process of navigating to a plot coordinate. To find a waypoint, go to the Waypoint Manager by scrolling through the **Pages.** Or select **Find> Waypoint**

1. Select **Waypoint** and scroll to find the specific waypoint
2. Select **Go**

5.1.9 Finding a coordinate

If the waypoints are not preloaded on to the device, a location can be found by navigating to a coordinate. To navigate to a coordinate:

- Select **Find**
- Scroll to **Coordinates**
- Enter the coordinate using the arrow keys and then select **Done.**

A comprehensive instruction manual by Hossain, Costello et al. (2015) is available in Bangla via the BFI Unit.

6 COMPLETION AND REPORTING

6.1 Submission of completed questionnaire (Paper based)

Enumerators will submit each completed questionnaire to the respective team leader after entering the data into the tablet. The team leader will keep the paper based questionnaire and will ensure that the data are sent to the BFI unit on weekly basis. Team leader (or FGD moderator) is responsible to sending filled in community survey data to BFI unit.

6.2 Submission of completed questionnaire (Tablet based)

The enumerator is responsible for sending household survey data to BFI unit via shared dropbox or one drive after exporting the collect/CSV file from the tablet or any electronic mechanism. Team leader (or FGD moderator) is responsible for sending Community survey data at the same household data submission.

6.3   Data submission

Data is submitted using the export function in the OpenForis application. The data is submitted

when it is uploaded to Dropbox ![Dropbox] .To submit the data, follow the steps below:

1. Connect the device to Wi-Fi or mobile internet
2. Selecting the Export button accessed via the menu button described in **Figure 11)**
3. A pop-up window appears. Select *Export* and Leave the two check boxes blank.
4. Select the Dropbox icon (as shown in Figure 11)
5. Press **ADD**.

If exporting a large file (with many photos) the export process may take some time in which case the device should be allowed to process for one or two minutes.

Data should be exported at the end of each day. If Wi-Fi access cannot be obtained, data should be backed up to a secondary device using the methodology outlined below in section 6.4. Data can be transferred through memory sticks (pen drive).
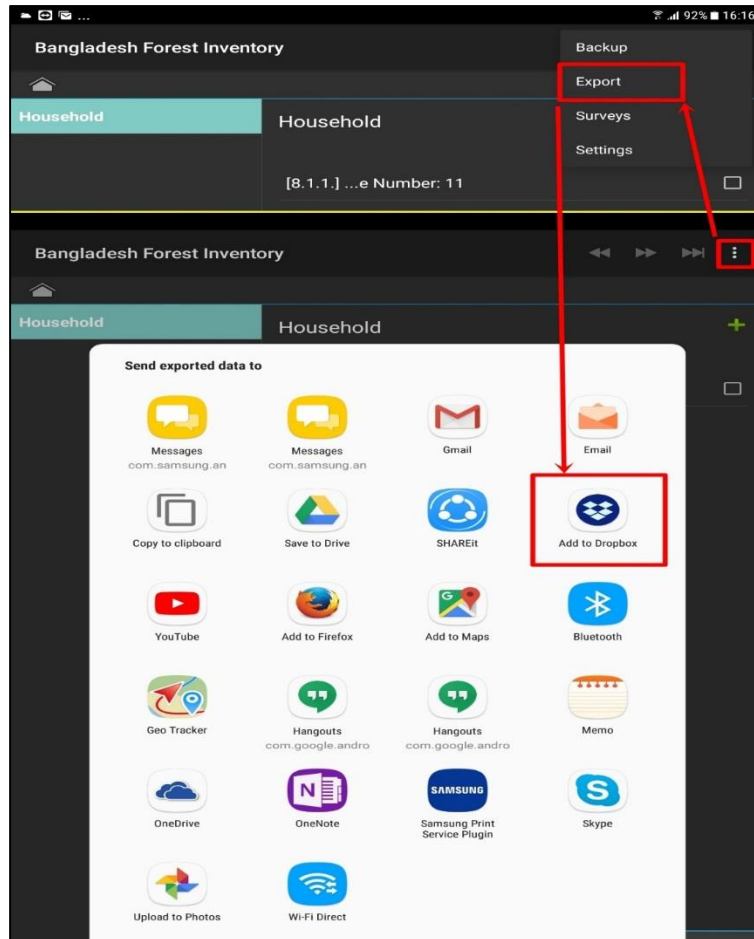
Figure 11: Setting are accessed via the icon displayed as three dots (top). Data is added to Dropbox via the File Copy function (bottom).

6.4   Backup data to secondary device

Data should be backed up to a secondary device every time field crews finish a HH survey or as often as necessary. A back up should be taken before deleting any data.

3. Selecting the **Export** button accessed via the menu button described in **Figure 12**.
4. In the pop-up window, select the "Save data in Download directory" box, then press **Export**. The pop-up window will disappear within one or two minutes indicating the file has been transferred.
5. Close the Open Foris application
6. Insert USB pen drive into the device.
7. Go to the "My Files" in the tab and then "Internal Storage" and then "Downloads" folder which is located at the path My Files> Internal Storage> Downloads (as shown in Figure 12). The most recent export will be at the bottom of the list. The file has a .collect-data file extension.
8. Press and hold the file until the options appear at the top of the screen. Press Copy Icon 📑 .
9. Navigate to the USB folder located at Storage >USB 1.
10. Press the paste icon 📋.
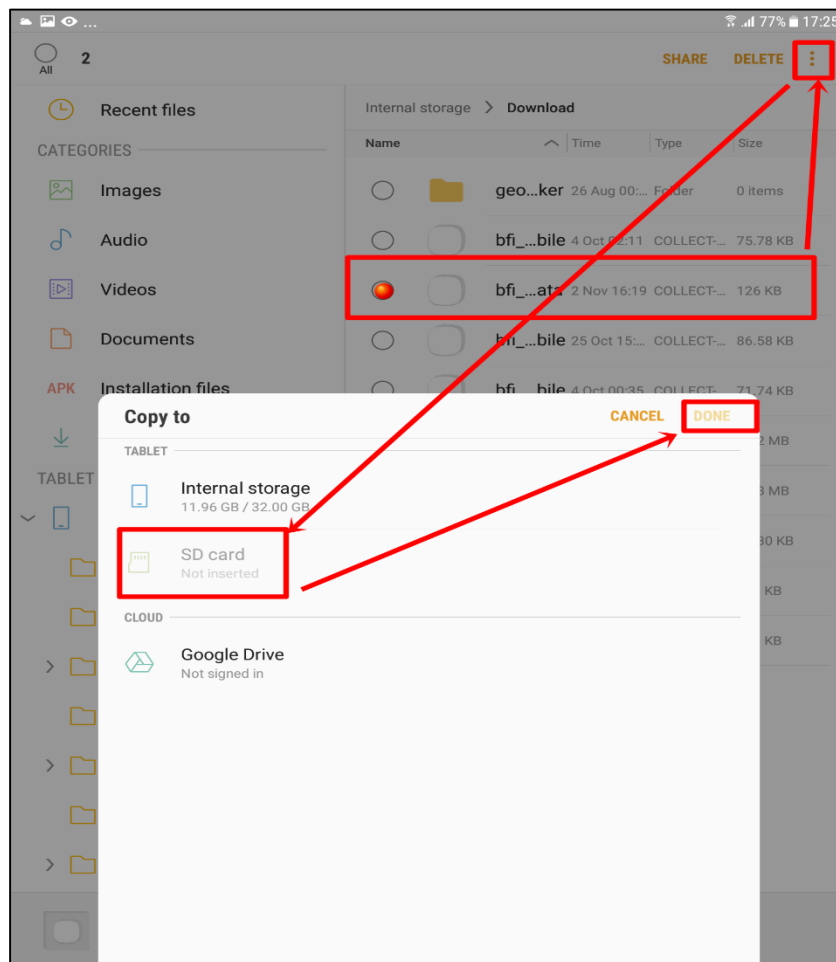
Figure 12: Data is transferred to SD card to File Manager.

6.5   Quality check after field data collection

Both paper and tablet data will be checked carefully at the BFI socioeconomic unit. Tablet data will be extracted and analyzed using the appropriate software for data validation and accuracy.

7   OTHERS

7.1   Inspection and preparation of equipment

All equipment is marked using an engraver or other labelling system noting the project name and equipment number. Each piece of equipment is assigned to a specific team so it can be tracked. Periodic checks of equipment will be undertaken to ensure maintenance is being carried out effectively. It is the team leader's responsibility to ensure the equipment is appropriately maintained.
It is the responsibility of the Inventory Crew to inspect equipment and calibrate as required before going to the field. If any faults are discovered they must be fixed and/or reported to the BFI Unit so that immediate measures can be undertaken.

Electronic equipment (GPS, and tablets) should be charged every night before going to the field. All extra batteries should be fully charged and available in the kits. Final inspection of equipment should be undertaken in the morning ensuring that all the necessary equipment is charged and in working conditions. Failure to check and rectify faulty equipment will lead to undesirable disruption of work, which otherwise could be avoided.

7.2   Planning of travel and locating the household

This section has been prepared in line with BFI biophysical field manual (Costello et al., 2016). Team member will prepare travel and action plan before going to field and will submit the plan to the BFI unit.

7.2.1   Planning

With the help of BFI socioeconomic unit, each team (Team Leader and Field Enumerator) will prepare the travel plan and submit to the BFI socioeconomic unit. The travel plan will enable for effective monitoring and quality check of the field interview.

The BFI unit will ensure the necessary field forms are available to each Team Leader (for both Household and Community survey). The field form (questionnaire) are described in detail in the manual. The field forms will be completed using Open Foris Collect and paper forms. Both Field Enumerator and Team Leader are responsible for preparing and maintaining the field equipment and organizing the data collection forms.

7.2.2 Contacts

Permission

Written or verbal permission from the Head of the Household must be obtained before the interview. This responsibility lies with the enumerators and team leader of the field. Local leaders (Ward/Union Parishad Chairman/Member and *Headman*) should be informed about the objectives of the field inventory to avoid misguided assumptions about the work.

List of Contacts

The team leader will report the daily activities to the BFI socioeconomic unit. In case of an emergency situation, the field enumerator/team leader will report to BFI unit as well as to local security offices. Each team member must ensure they have important contact numbers before the field survey. The contacts of local forest officials are provided to all field staff involved in the BFI implementation of biophysical survey (Annex 8: Contacts list). The list of contacts including location and phone number will be regularly updated by the BFI unit.

7.2.3 Safety

Each team will receive a first aid box for safety measures. The team member will collect information about the security of the places to be visited including environmental disturbances like floods, heavy rainfall etc.

Personnel working in the field are subject to many safety hazards. These can be minimized by considering the following:

Wear protective clothing provided: Long-sleeved shirts, long pants, and boots protect you from contact cuts, abrasions and stinging/biting insects.

First Aid Kit: Any item used from the kit should be replaced as soon as possible. Contact the BFI Unit when replacement items are needed.

Take shelter in bad weather: Wait till severe weather has passed before resuming work.

Protect from hot and humid condition. Ensure drink bottles are full prior to departing for the field and drink plenty of water to avoid dehydration on hot days.

8   Detailed instructions to enumerators for completing the HH survey questionnaire

8.1. Area identification

8.1.1. Household unique number

[hh_unique_no]

Record the unique HH number. If the household number 5, record 0005, if the household number is 50, record 0050. The household numbers were distributed according the zone (Sundarbans1 to 1280), (Coastal- 1281 to 2560), (Hill-2561 to 3840), (Sal-3841 to 5120) and (Village-5121 to 6400)

When collected:	All
Field Width:	4 digits
Tolerance:	No errors
Values:	0001 to 6400

8.1.2. Interview date
[date_Interview]

Record date of the household information collection. It only needs to be entered if the OpenForis tablets are not operational and paper forms are being used.

When collected:	All
Field width:	List
Tolerance:	No errors
Values:	20/12/2017 to 31/05/2018

8.1.3. Division
[division_name]
Record the division name of the HH selected. This information is auto-calculated in OpenForis. It only needs to be noted when paper forms are being used.

When collected:	All
Field Width:	2 digits
Tolerance:	No errors
Values:	List provided by BBS (Annex 12. List of selected unions according to zones and administrative units)

8.1.4. District

[distict_name]

Record district name of the HH selected. This information is auto-calculated in OpenForis. It only needs to be noted when paper forms are being used.

When collected:	All
Field Width:	2 digits
Tolerance:	No errors
Values:	List provided by BBS (Annex 12. List of selected unions according to zones and administrative units)

8.1.5. Upazila

[upazila_name]

Record Upazila name of the HH selected. This information is auto-calculated in OpenForis. It only needs to be noted when paper forms are being used.

When collected:	All
Field Width:	2 digits
Tolerance:	No errors
Values:	List provided by BBS (Annex 12. List of selected unions according to zones and administrative units)

8.1.6. Union

[union_name]

Record Union name of the HH selected. This information is auto-calculated in OpenForis. It only needs to be noted when paper forms are being used.

When collected:	All
Field Width:	2 digits
Tolerance:	No errors
Values:	List provided by BBS (Annex 12. List of selected unions according to zones and administrative units)

8.1.7. Mauza

[mauza_name]

Record Mauza name of the HH selected or write down. This information is not auto calculated by the OpenForis. It is required to type in the tablet as well as in the paper form.

When collected:	All
Field Width:	50 digits
Tolerance:	No errors
Values:	Text

8.1.8. Ward

[ward_name]

Record Ward name of the HH selected or write down. This information is not auto calculated by the OpenForis. It is required to type in the tablet as well as in the paper form.

When collected:	All
Field Width:	50 digits
Tolerance:	No errors
Values:	Text

8.1.9. Village

[village_name]

Type the name of village of the selected HH. This information is not auto calculated by the OpenForis. It is required to type in the tablet as well as in the paper form.

When collected:	All
Field Width:	50 digits
Tolerance:	No errors
Values:	Text

8.1.0. Zone

[zone]

Record the zone name of HH selected. The zone refers to the areas used to stratify the socioeconomic survey design. This information is auto-calculated in OpenForis. It only needs to be noted when paper forms are being used.

When collected:	All	
Field Width:	1 digit	
Tolerance:	No errors	
Values:	Code	Description
	1	Sundarbans
	2	Coastal
	3	Hill
	4	Sal
	5	Village

8.1.11. Stratum

[stratum_name]

Record the strata name of the selected HHs. This information is auto-calculated in OpenForis. It only needs to be noted when paper forms are being used.

When collected:	All	
Field Width:	1 digit	
Tolerance:	No errors	
Values:	Code	Description
	1	Coastal1
	2	Coastal2
	3	Coastal3
	4	Coastal4
	5	Hill1
	6	Hill2
	7	Hill3
	8	Hill4
	9	Sal1

10	Sal2
11	Sal3
12	Sal4
13	Village1
14	Village2
15	Village3
16	Village4
17	Sundarbans1
18	Sundarbans2
19	Sundarbans3
20	Sundarbans4

8.1.12. Forest division

[forest_div]

Record the forest division of HH selected. This information is auto-calculated in OpenForis. It only needs to be noted when paper forms are being used.

When collected:	All
Field Width:	2 digits
Tolerance:	No errors
Values:	List provided by BFD (Annex 4: Forest divisions)

8.1.13. Forest range

[forest_rang]

Record the forest range of HH selected. A forest range is a term used to define administrative regions containing one or more (usually) demarcated and protected or resource-managed forests. This information is auto-calculated in OpenForis. It only needs to be noted when paper forms are being used. If it is not pre-coded in the tablet please write down both tablet and paper.

When collected:	All
Field Width:	2 digits
Tolerance:	No errors
Values:	List provided by BFD (Annex 5: Forest ranges)

8.1.14. Forest beat
[forest_beat]

Record the beat name of HH selected. Beat refer to smallest administrative unit of Forest Department. If it is not pre-coded in the tablet please write down both tablet and paper.

When collected:	All
Field Width:	2 digits
Tolerance:	No errors
Values:	List provided by BFD (Annex 6: Forest Beats)

8.1.15. HH survey point

[hh_location_point]

Record the code number of HH survey location. This information is auto-calculated in the tablet. If tablet is not operational, please record in the paper form.

When collected:	All
Field Width:	2 digits
Tolerance:	No errors
Values:	1-10

8.1.16. GPS coordinate

Record the North-South and East-West GPS coordinates where the HH is located. The GPS coordinates are recorded in decimal degree using the geographic coordinate system WGS84. The GPS coordinate refer to the household location. The HH location is defined automatically in Open Foris while it needs to be filled in the Paper form. If tablet is not automatically calculated please type the coordinate using the GPS.
[hh_location_gps]

When collected:	All
Field Width:	14 digits
Tolerance:	+/- 10 m
Values:	20.700000 to 27.000000

8.1.17. Time start

[start_time]

Record the time when the enumerator started to interview of a selected household. This information is auto-calculated in OpenForis. It only needs to be noted when paper forms are being used and tablet is not operational.

When collected:	All
Field Width:	4 digits
Tolerance:	No errors
Values:	HH:MM

8.1.18. Name of interviewer

[name_interviewer]
Record the name of the interviewer for each HH interviewed. If it is not pre-coded in the tablets please write down the interviewer name in the table and paper forms.

When collected:	All
Field width:	50 digits
Tolerance:	No errors
Values:	Text

8.2. Demographic information

8.2.1. Respondent name

[name_respondent]

Please record the name of the respondent by taking his/her permission.

When collected:	All
Field Width:	50 digits
Tolerance:	No errors
Values:	Text

8.2.2. Age of the respondent

[age_respondent]

Please record age of the respondent by asking from the respondent. It is mandatory that respondent age must over 18 years old.

When collected:	All
Field Width:	2 digits
Tolerance:	No errors
Values:	18-80

8.2.3. Gender of the respondent

[gender_respondent]

Please record the gender of the respondent. There will be a drop down of gender in the tablet and select the correct one. If tablet is not operational please tick ☑ mark in the paper form.

When collected:	All	
Field Width:	1 digit	
Tolerance:	No errors	
Values:	Code	Description
	1	Male
	2	Female
	3	Third Gender

8.2.4. Ethnic group

[hh_ethnicity]

Record ethnicity of the household by asking from the respondent. There will be a drop down of ethnicity group in the tablet and select the correct one. If tablet is not operational please tick ☑ mark the code of ethnicity in the paper form.

When collected:	All	
Field Width:	1 digit	
Tolerance:	No errors	
Values:	Code	Description
	1	Bagdi
	2	Barman
	3	Bawm
	4	Bengali
	5	Bhuimali
	6	Bhumij
	7	Bonaj
	8	Chak
	9	Chakma
	10	Dalu
	11	Hajong
	12	Garo
	13	Karmakar
	14	Khasia
	15	Kheyang
	16	Khumi
	17	Koch
	18	Kole
	19	Lahra
	20	Lushai
	21	Mahali
	22	Mahato
	23	Malo
	24	Manupuri
	25	Marma
	26	Malpahari
	27	Mro or Murong
	28	Munda
	29	Mushhor
	30	Oraon
	31	Pahan
	32	Pahari
	33	Palia
	34	Pangan
	35	Pangkhoa
	36	Rabidas
	37	Rajbangshii
	38	Rakhaing
	39	Santal
	40	Tanchanga
	41	Tripura
	42	Usui
	96	Other (specify)

8.2.5. Members of the HH

[hh_member]

Record total number household members in the HH by asking from the respondent.

When collected:	All
Field Width:	2 digits
Tolerance:	No errors
Values:	01 to 15

8.2.6. Age class and gender

[age_class_gender]

Record age class of all HH members and their gender

When collected:	All					
Field Width:	1 digit					
Tolerance:	No errors					
Values:	Code	Description				
		Gender	Age class			
	1	Male	<15 years Male	15-29 years	30-64 years	>64 years
	2	Female				
	3	Third gender				

8.3. Biodiversity and conservation

8.3.1. Plant species availablein the past

[plant_spp]

Record whether any plant species (the plants occurring within a given region) that were abundantly available in the past but rarely seen now-a-days in the union. Plant species includes all kinds of trees, herbs and shrubs including bamboos. Please tick ☑ mark in the paper form if tablet is not working.

When collected:	All	
Field Width:	1 digit	
Tolerance:	No errors	
Values:	Code	Description
	0	No, go to question no. 8.3.3.1
	1	Yes, go to question no. 8.3.2-8.3.3
	99	Do not know, go to question no. 8.3.3.1

8.3.2. Plant species not found abundantly like before in the union

[plant_abundant]

Record maximum five local names of most important plant species that are not found abundantly like before in this union. It includes all trees, bamboos, shrubs and herbs. The enumerator must type the species names in the tablet and in the paper form when tablet is not operational.

When collected:	plant_spp =1
Field Width:	50 digits
Tolerance:	No errors
Values:	Text

8.3.3. Main reasons of reduction in numbers of these species

[reason_plant_reduct]

Record the main reasons of reduction in number of these species in this union. This information can be seen automatically in the tablet as drop-down list. Enumerator will mark the respondent answer from the list. If tablet is not working please tick ☑ mark /write down code in the paper form. Multiple answers are possible.

When collected:	plant_spp =1	
Field Width:	1 digit	
Tolerance:	No errors	
Values:	Code	Description
	1	Land use change-Change the way land is used (e.g., clearing of forests for agricultural use, including open burning of cleared biomass),
	2	Over harvesting- the harvesting of plants or animals in an unsustainable manner. It includes extreme extraction of tree and forest products, grazing, fishing, and using fresh water.
	3	Lack of proper management- Inappropriate process to dealing with or controlling things
	4	Natural disasters- a natural event such as a flood, earthquake, or hurricane that causes damage
	96	Others (please specify the reason)

8.3.3.1. Plant species common in the union
[plant_spp_common]

Record whether any plant species (the plants occurring within a given region) that were abundantly not available in the past but now are common in the union. Plant species includes all kinds of trees, herbs and shrubs including bamboos. Please tick ☑ mark in the paper form if tablet is not working.

When collected:	All	
Field Width:	1 digit	
Tolerance:	No errors	
Values:	Code	Description
	0	No, go to question no. 8.3.3.4
	1	Yes, go to question no. 8.3.3.2-8.3.3.3
	99	Do not know, go to question no. 8.3.3.4

8.3.3.2. Plant species not abundant in the past but now are common in the union

[plant_abundant_comm]

Record maximum five local names of most important plant species that were not found abundantly in the past but now are available in this union. It includes all trees, bamboos, shrubs and herbs. The enumerator must type the species names in the tablet and in the paper form when tablet is not operational.

When collected:	plant_spp_common=1
Field Width:	50 digits
Tolerance:	No errors
Values:	Text

8.3.3.3. Main reasons for the increase in plant species

[reason_plant_increase]

Record the main reasons of increase in number of these species in this union. This information can be seen automatically in the tablet as drop-down list. Enumerator will mark the respondent answer from the list. If tablet is not working please tick ☑ mark /write down code in the paper form. Multiple answers are possible.

When collected:	plant_abundant_comm	
Field Width:	1 digit	
Tolerance:	No errors	
Values:	Code	Description
	1	Reduced extraction of plant species
	2	Tree planting
	3	Proper management
	4	Less natural disturbances
	96	Others (please specify the reason)

8.3.3.4. Tree cover changes in the land in the past ten years

[tree_cover_past]
Record whether any changes of tree cover in your land in the past ten years. Enumerator will mark the respondent answer from drop down list in the tablet and tick ☑ mark the code when tablet is not operational.

When collected:	All	
Field Width:	1 digit	
Tolerance:	No errors	
Values:	Code	Description
	0	No changes, go to question no. 8.3.3.7
	1	Increased, go to question no. 8.3.3.5
	2	Decreased, go to the question no. 8.3.3.6
	99	Do not know, go to question no. 8.3.3.4

8.3.3.5. Reasons for increasing tree cover in the land in the past ten years

[tree_cover_increase]

Record maximum five reasons for increasing the tree cover in your land in the past ten years. The enumerator must type the species names in the tablet and in the paper form when tablet is not operational.

When collected:	**tree_cover_past=1**
Field Width:	50 digits
Tolerance:	No errors
Values:	Text

8.3.3.6. Reasons for decreasing tree cover in the land in the past ten years

[tree_cover_decrease]

Record maximum five reasons for decreasing the tree cover in your land in the past ten years. The enumerator must type the species names in the tablet and in the paper form when tablet is not operational.

When collected:	**tree_cover_past=2**
Field Width:	50 digits
Tolerance:	No errors
Values:	Text

8.3.3.7. Tree cover changes in the land in the next ten years

[tree_cover_next]
Record whether any changes of tree cover in your land in the next ten years. Enumerator will mark the respondent answer from drop down list in the tablet and tick ☑ mark the code when tablet is not operational.

When collected:	All	
Field Width:	1 digit	
Tolerance:	No errors	
Values:	Code	Description
	0	No changes, go to question no. 8.3.4
	1	Increased, go to question no. 8.3.3.8
	2	Decreased, go to the question no. 8.3.3.9
	99	Do not know, go to question no. 8.3.4

8.3.3.8. Reasons for increasing tree cover in the land in the next ten years

[tree_cover_increase_next]

Record maximum five reasons for increasing the tree cover in your land in the next ten years. The enumerator must type the species names in the tablet and in the paper form when tablet is not operational.

When collected:	**tree_cover_next =1**
Field Width:	50 digits
Tolerance:	No errors
Values:	Text

8.3.3.9. Reasons for decreasing tree cover in the land in the next ten years

[tree_cover_decrease_next]

Record maximum five reasons for decreasing the tree cover in your land in the next ten years. The enumerator must type the species names in the tablet and in the paper form when tablet is not operational.

When collected:	**tree_cover_next =2**
Field Width:	50 digits
Tolerance:	No errors
Values:	Text

8.3.4. Animal species available in the past

[animal_spp]

Record whether any animal species (it includes all the animals in a particular region or period) that were abundantly available in the past but rarely seen now-a-days in the union. Animal species includes mammals (tiger, leopard, elephant, deer, money, etc.), reptiles (snake, turtle, lizard etc.), aves (birds), amphibia (frog), etc. Enumerator will mark the respondent answer from drop down list in the tablet and tick ☑ mark the code when tablet is not operational.

When collected:	All	
Field Width:	1 digit	
Tolerance:	No errors	
Values:	Code	Description
	0	No, go to question no. 8.4.1
	1	Yes, go to question 8.3.5-8.3.6
	99	Do not know, go to question no. 8.4.1

8.3.5. Animal species not found abundantly like before in the union

[animal_abundant]

Record five most important animal species that are not found abundantly like before in this union. However, enumerator will try to record five animal species from the respondents. The enumerator must type the species names in the tablet and in the paper form where tablet is not operational.

When collected:	animal_spp =1
Field Width:	50 digits
Tolerance:	No errors
Values:	Text

8.3.6. Main reasons of reduction in number of these species

[reason_animal_reduct]

Record main reasons of reduction in number of these species in this union. Multiple answers are possible. This information can be seen automatically in the tablet as drop-down list. Enumerator

will mark the respondent answer from the list. If tablet is not working please write down / tick ☑ mark the code in the paper form.

When collected:	animal_spp =1	
Field Width:	1 digit	
Tolerance:	No errors	
Values:	Code	Description
	1	Loss of habitat- is the process in which natural habitat is rendered unable to support the species present. In this process, the organisms that previously used the site are displaced or destroyed, reducing biodiversity.
	2	Hunting- the activity of hunting wild animals or game, especially for food or cash
	3	Lack of proper management- Inappropriate process to dealing with or controlling things
	4	Natural disasters- a natural event such as a flood, earthquake, or hurricane that causes damage
	96	Others (please specify)

8.3.7. Animal species common in the union
[animal_spp_common]

Record whether any animal species (occurring within a given region) that were not abundant in the past but now are ommon in the union. Please tick ☑ mark in the paper form if tablet is not working.

When collected:	All	
Field Width:	1 digit	
Tolerance:	No errors	
Values:	Code	Description
	0	No, go to question no. 8.4.1
	1	Yes, go to question no. 8.3.8-8.3.9
	99	Do not know, go to question no. 8.4.1

8.3.8. Animal species not abundant in the past but now are common in the union

[animal_abundant_comm]

Record maximum five local names of most important animal species that were not found abundantly in the past but now are available in this union. The enumerator must type the species names in the tablet and in the paper form when tablet is not operational.

When collected:	animal_spp_common =1
Field Width:	50 digits
Tolerance:	No errors
Values:	Text

8.3.9. Main reasons for the increase in animal species

[reason_anima_increase]

Record the main reasons of increase in number of these species in this union. This information can be seen automatically in the tablet as drop-down list. Enumerator will mark the respondent answer from the list. If tablet is not working please tick ☑ mark /write down code in the paper form. Multiple answers are possible.

When collected:	animal_abundant_comm	
Field Width:	1 digit	
Tolerance:	No errors	
Values:	Code	Description
	1	Improved habitat for animals
	2	Less poaching and hunting
	3	Proper management including law enforcement
	4	Less natural disturbances
	96	Others (please specify the reason)

8.4. Disturbances, forest degradation and resilience

8.4.1. Disturbances in tree and forest resources

[disturbances_tree]

Please record the answer whether any disturbances (events that cause change in the structure and composition of a forest ecosystem) affected trees and forest resources in past 10 years in the union. Please tick ☑ mark the code in the paper form.

When collected:	All	
Field Width:	1 digit	
Tolerance:	No errors	
Values:	Code	Description
	0	No, go to question no. 8.5.1
	1	Yes, go to question no. 8.4.2
	99	Don't know, go to question no. 8.5.1

8.4.2. Type of disturbances

[type_disturbances]

Please record type of disturbances have occurred in the past 10 years in the union. Respondent might answer both options and enumerator will tick ☑ mark the answer.

When collected:	disturbances_tree=1	
Field Width:	1 digit	
Tolerance:	No errors	
Values:	Code	Description

	1	Human made- clear cutting, forest clearing and conversion of forest into different uses can be considered major disturbances done by human, go to the question no. 8.4.3-8.4.5
	2	Natural- are influenced mainly by climate, weather such as flooding, windstorms, cyclones, earthquakes, various types of volcanic eruptions, tsunami,), go to the question no. 8.4.6-8.4.8

8.4.3. Important human made disturbances

[disturbances_human]

Record the most important human made disturbances in the union in the past 10 years. The code and description are automatically seen in the tablet. The enumerator will read out the options so that respondent have an idea to respond. Multiple answers are possible.

When collected:	type_disturbances=1	
Field Width:	1 digit	
Tolerance:	No errors	
Values:	Code	Description
	1	Encroachment- Unlawful entering (gradually and without permission) to the land, property, other possessions, or the rights of another
	2	Illegal logging-Unauthorized harvesting of timber and fuel wood
	3	Legal conversion of forest land to other uses-conversion of forest land into agriculture, aquaculture
	4	Excessive collection of fuelwood
	5	Excessive collection of NWFP (Non-wood forest products include-honey, medicinal plants, fish, crabs, broom, *Nypa* etc.)
	6	Grazing- Grazing is a method of feeding in which an herbivore (cow, goat, lamb) feeds on plants such as grasses
	7	Fire
	8	Oil spills- is the release of a liquid petroleum hydrocarbon into the environment, especially the marine ecosystem, due to human activity.
	9	Gas exploration- is the search by petroleum geologists and geophysicists for hydrocarbon deposits beneath the Earth's surface

	10	Sand/stone quarry- is a place from which dimension stone, rock, construction aggregate, riprap, sand, gravel, or slate has been excavated from the ground
	11	Hill cutting- is where soil or rock material from a hill or mountain is cut out to make way for a canal, road or railway line or other purposes
	12	Other mining activities - the process or industry of obtaining coal or other minerals from a mine
	13	Infrastructure development (e.g. building, road, bridge and dam)
	96	Others (please specify)

8.4.4. Severity of human made disturbances

[severity_dist_human]

Record the severity of human made disturbances on tree and forest resources based on the answer of the question no. 8.4.3

When collected:	disturbances_human =1-13 and 96	
Field Width:	1 digit	
Tolerance:	No errors	
Values:	Code	Description
	1	Very low: 0-5% disturbances
	2	Low: 6-15% disturbances
	3	Medium, 16-35% disturbances
	4	High: 36-60% disturbances
	5	Very high: >61% of disturbances

8.4.5. Location of human made disturbances

[location_human_dis]

Please note down the code of land cover class from the maps where the human made disturbances have occurred in past 10 years. The description of each code is described in appendix 9. Each of the human made disturbances should be linked with the land cover class map. Multiple answers are possible.

When collected:	disturbances_human =1-13 and 96	
Field Width:	1 digit	
Tolerance:	No errors	
Values:	Code	Description
	FH	Hill Forest
	FDp	Plain Land Forest (Sal Forest)
	BF	Bamboo Forest
	S	Shrub Dominated Area (Terrestrial)
	ShF	Shrub Dominated Forest Area
	H	Herb Dominated Area (Terrestrial)
	SF	Swamp Forest

	NMF	Mangrove Forest
	SWr	Swamp Reed Land
	FP	Forest Plantations
	FPr	Rubber Plantation
	OT	Orchards and Other Plantations (Trees)
	OS	Orchards and Other Plantations (Shrubs)
	PCs	Single Crop
	PCm	Multiple Crop
	SC	Shifting Cultivation
	FMp	Mangrove Plantation
	FSp	Swamp Plantation
	MF	Mud Flats or Intertidal Area
	BS	Sand
	RB	River Banks
	BNL	Built-Up Non-Linear
	DS	Dump Sites/ Extraction Sites
	SP	Salt Pan
	B	Brickfields
	Ap	Airport
	R	Rivers and Khals
	Ba	Baor
	BH	Perennial Beels/Haors
	L	Lake
	Po	Ponds
	BWa	Brackish Water Aquaculture
	FWa	Fresh Water Aquaculture
	RS	Rural Settlement

8.4.6. Natural disturbances

[natural_disturbances]

Record type of natural disturbances occurred in this union in past 10 years. Please read out the options and make respondent understand these. Multiple answer is possible.

When collected:	type_disturbances=2	
Field Width:	1 digit	
Tolerance:	No errors	
Values:	Code	Description
	1	Excessive rainfall: The most frequent and widespread rainfall that destroys tree and forest resources

	2	Landslide/river erosion: The sliding of a large mass of rock material, soil etc. down the side of mountain or hill or river side
	3	Waterlogging: prolonged high-water level caused by restricted drainage generally as a result of human activity and restricts activity such as agriculture
	4	Flooding: Overflow of water that submerges land which is usually dry
	5	Cyclone/tidal surges/nor 'wester/tornedo: Presence of damages caused by cyclones or by coastal flood or tsunami-like phenomenon of rising water
	6	Siltation: Accumulation of sediment/silt at tree base causing deoxygenation
	7	Drought: Water shortage causing adverse impacts on vegetation
	8	Earthquakes: a sudden and violent shaking of the ground, sometimes causing great destruction, as a result of movements within the earth's crust or volcanic action.
	9	Pest and diseases: Pests, insects and fungus are present and can damage vegetation
	10	Increased salinity: is the quantity of dissolved salt content of the water. Salinity influences the kinds of plants that will grow either in a water body, or on land fed by a water
	96	Others (please specify)

8.4.7. Severity of natural disturbances

[severity_dist_natural]

Record the severity of natural disturbances on tree and forest resources based on the answer of the question no. 8.4.6.

When collected:	natural_disturbances=1-11 and 96	
Field Width:	1 digit	
Tolerance:	No errors	
Values:	Code	Description
	1	Very low: 0-5% disturbances
	2	Low: 6-15% disturbances
	3	Medium, 16-35% disturbances
	4	High: 36-60% disturbances
	5	Very high: >61% of disturbances

8.4.8. Location of natural disturbances
[location_natural_dis]
Please note down the code of land cover class from the maps where the natural disturbances have occurred in past 10 years. The description of each code is described in appendix 9. Each of the natural disturbance should be linked with the land cover class. Multiple answers are possible.

When collected:	natural_disturbances=1-10 and 96	
Field Width:	1 digit	
Tolerance:	No errors	
	Code	Description
	FH	Hill Forest
	FDp	Plain Land Forest (Sal Forest)
	BF	Bamboo Forest
	S	Shrub Dominated Area (Terrestrial)
	ShF	Shrub Dominated Forest Area
	H	Herb Dominated Area (Terrestrial)
	SF	Swamp Forest
	NMF	Mangrove Forest
	SWr	Swamp Reed Land
	FP	Forest Plantations
	FPr	Rubber Plantation
	OT	Orchards and Other Plantations (Trees)
	OS	Orchards and Other Plantations (Shrubs)
	PCs	Single Crop
	PCm	Multiple Crop
	SC	Shifting Cultivation
	FMp	Mangrove Plantation
	FSp	Swamp Plantation
	MF	Mud Flats or Intertidal Area
	BS	Sand
	RB	River Banks
	BNL	Built-Up Non-Linear
	DS	Dump Sites/ Extraction Sites
	SP	Salt Pan
	B	Brickfields
	Ap	Airport
	R	Rivers and Khals
	Ba	Baor
	BH	Perennial Beels/Haors
	L	Lake
	Po	Ponds
	BWa	Brackish Water Aquaculture
	FWa	Fresh Water Aquaculture
	RS	Rural Settlement

8.5. Economics and livelihood

8.5.1. HH collect or Income related to tree and forest

[income_forests]

Please record the answer whether HH have any income related to tree and forests or collected tree and forest products for consumption or subsistence livelihood in the past 12 months. Please tick ☑ mark in the paper form if tablet is not operational.

When collected:	All	
Field Width:	1 digit	
Tolerance:	No errors	
Values:	Code	Description
	0	No-HH has no income from tree and forest resources and HH do not collect tree and forest products for own use, then please ask the question 8.5.41
	1	Yes- HH has income from tree and forest resources and HH collect tree and forest products for own use from tree and forest resources, then please ask question 8.5.2

8.5.2. Nature of product collected or income generated

[sources_income]

Please record the nature of products collected or income generated related to tree and forest resources. Please tick ☑ mark in the paper form if tablet is not operational. Multiple answers are possible.

When collected:	income_forests =1	
Field Width:	1 digit	
Tolerance:	No errors	
Values:	Code	Description
	1	Primary tree and forest products (i.e. traditionally collected from tree and forest resources, i.e., provisioning ecosystem services)-timber, poles, firewood, honey, *Golapata* etc., go to question no. 8.5.3
	2	Processed tree and forest products-include Charcoal, wooden furniture, handicrafts etc made from tree and forest products, go to the question no. 8.5.19
	3	Employment in an institution or business related to tree and forest activities-employment includes-wage labour, factory, furniture making, saw mills, salaried jobs etc. related to tree and forests, go to the question no. 8.5.40

8.5.3. Tree and forest products collection

[forest_products]

Please record the tree and forest products collected by your HH in past 12 months. Multiple answers are possible.

When collected:	sources_income=1	
Field Width:	1 digit	
Tolerance:	No errors	
Values:	Code	Description
	1	Timber
	2	Poles
	3	Barks
	4	Bamboo
	5	Cane
	6	Lianas and vines
	7	Brooms
	8	Thatching materials
	9	Reeds
	10	Nypa (golpata)
	11	Bee wax
	12	Ornamental plants
	13	Medicinal plants
	14	Murta/patipata
	15	Lac
	16	Tree seedlings
	17	Fodder
	18	Seeds
	19	Fuelwood
	20	Leaves, twigs and branch
	21	Other energy (please specify)
	22	Fruits
	23	Bamboo shoots
	24	Mushrooms
	25	Root tubers
	26	Other vegetables
	27	Spices
	28	Wild meat
	29	Other animal products
	30	Fish
	31	Shrimp
	32	Shrimp fry
	33	Crabs
	34	Honey
	35	Wax
	96	Other (specify)

8.5.4. Quantity of tree and forest products collection
[quantity_collection]
Record quantity of each product collected from tree and forests resources in past 12 months along with unit of collection based on answer received from question no. 8.5.3. Multiple answers are possible. Units are pre-coded in each tree and forest pr0ducts.

When collected:	sources_income=1
Field Width:	5 digits
Tolerance:	No errors
Values:	00001-10,000/Text

8.5.5. HH members involved in collection of primary tree and forest products

[hh_nmbr]
Record the total number of HH members involved in primary tree and forest product collection.

When collected:	sources_income=1
Field Width:	1 digit
Tolerance:	No errors
Values	01-10

8.5.6. Months of tree and forest products collected
[mnth_collec]
Record the number of months involved in each of tree and forests products collection in the past 12 months by HH members based on answer received from question no. 8.5.3. If more than one member involved in tree and forest products collection, then calculate total months and write the average month. Multiple answers are possible.

When collected:	sources_income=1
Field Width:	2 digits
Tolerance:	No errors
Values:	01-12

8.5.7. Days of tree and forest products collected
[days_mnth]

Record the number of days spent per month in collecting each of tree and forests products by the HH members based on answer received from question no. 8.5.3. If more than one member involved in tree and forest products collection, then calculate total days and write the average day. Multiple answers are possible.

When collected:	sources_income=1
Field Width:	2 digits
Tolerance:	No errors
Values:	01-30

8.5.8. Hours of tree and forest products collected
[hours_day]
Record the number of hours spent per day in collecting each of tree and forests products by the HH members based on answer received from question no. 8.5.3. If more than one member involved in tree and forest products collection, then calculate total hour and write the average hour. Multiple answers are possible.

When collected:	sources_income=1
Field Width:	2 digits
Tolerance:	No errors
Values:	0.1-24

8.5.9: Sold collected tree and forest products

[sold_product]
Record whether HH sell any collected tree and forest products in the past12 months.

When collected:	sources_income=1	
Field Width:	1 digit	
Tolerance:	No errors	
Values:	Code	Description
	0	No, if answer no, please go to the question no. 8.5.14
	1	Yes, if yes please continue to the question no. 8.5.10

8.5.10. Quantity of tree and forest products sold
[qnty_sold]

Record the quantity of sale of each tree and forest products per month in the past 12 months based on answer received from question no. 8.5.3. Multiple answers are possible.

When collected:	sold_product=1
Field Width:	5 digits
Tolerance:	No error
Values:	0,0001- 10,000

8.5.11. Month of selling tree and forest products
[mnth_selling]
Record the months of selling in a year of each tree and forest product based on answer received from question no. 8.5.3. Multiple answers are possible.

When collected:	sold_product=1
Field Width:	2 digits
Tolerance:	No error
Values:	01-12

8.5.12. Unit price of the tree and forest products
[unit_price]
Record the unit price (in BDT) of the tree and forest products based on answer received from question no. 8.5.3. Multiple answers are possible.

When collected:	sold_product=1
Field Width:	7 digits
Tolerance:	No errors
Values:	0,000,001-1,000,000

8.5.13. Cost of selling tree and forest products
[cost_selling]
Record the costs of selling of each tree and forest product per month in the past 12 months based on answer received from question no. 8.5.3. It includes transportation cost and other related cost such as labour, etc. Multiple answers are possible.

When collected:	sold_product=1
Field Width:	5 digits
Tolerance:	No errors
Values:	0,0001-10,000

8.5.14. Location of tree and forest products collection
Please note down the code of land cover class from the maps from where tree and forest products are collected in the past 12 months based on answer received from question no. 8.5.3. The description of each code is described in appendix 9. Each of the tree and forest product collection should be linked with the land cover class map. Multiple answers are possible.
[location_tree_forests]

When collected:	sources_income=1	
Field Width:	1 digit	
Tolerance:	No errors	
Values:	Code	Description
	FH	Hill Forest
	FDp	Plain Land Forest (Sal Forest)
	BF	Bamboo Forest
	S	Shrub Dominated Area (Terrestrial)
	ShF	Shrub Dominated Forest Area
	H	Herb Dominated Area (Terrestrial)
	SF	Swamp Forest
	NMF	Mangrove Forest
	SWr	Swamp Reed Land
	FP	Forest Plantations
	FPr	Rubber Plantation
	OT	Orchards and Other Plantations (Trees)
	OS	Orchards and Other Plantations (Shrubs)
	PCs	Single Crop
	PCm	Multiple Crop

	SC	Shifting Cultivation
	FMp	Mangrove Plantation
	FSp	Swamp Plantation
	MF	Mud Flats or Intertidal Area
	BS	Sand
	RB	River Banks
	BNL	Built-Up Non-Linear
	DS	Dump Sites/ Extraction Sites
	SP	Salt Pan
	B	Brickfields
	Ap	Airport
	R	Rivers and Khals
	Ba	Baor
	BH	Perennial Beels/Haors
	L	Lake
	Po	Ponds
	BWa	Brackish Water Aquaculture
	FWa	Fresh Water Aquaculture
	RS	Rural Settlement

8.5.15. Ownership of tree and forest products collection

[owner_collect]

Record ownership type of the land from where tree and forest products are collected based on answer received from question no. 8.5.3. Multiple answers are possible.

When collected:	sources_income=1	
Field Width:	1 digit	
Tolerance:	No errors	
Values:	Code	Description
	1	*Private-Owned by individuals or families*
	2	*Forest Department-owned by Forest department*
	3	*Government- other institutions (owned by governments or by government institutions or corporation other than FD (railways, water development board, Roads and Highways etc.)*
	4	*Community institutions-owned by community people*
	96	*Other (please specify)*
	99	*Unknown*

8.5.16. Gender and age of HH members for collection of primary tree and forest products

[hh_gender_age]

Record gender and age class of the HH members involved in primary tree and forest product collection.

When collected:	sources_income=1					
Field Width:	1 digit					
Tolerance:	No errors					
Values:	Code	Description				
		Gender	Age class			
			<15 years Male	15-29 years	30-64 years	>64 years
	1	Male				
	2	Female				
	3	Third gender				

8.5.17. Hunted species by HH

[species_hunt]
Please record the three most hunted wild species in the union (*please check the options 28 and 29 at question no 8.5.3. for consistency.*

When collected:	sources_income=1
Field Width:	50 digits
Tolerance:	No errors
Values:	Text

8.5.18. Tree and forest products for livelihood

[hh_tree_livelihood]

Please record the five most important tree and forest products that HHs depend for their livelihood.

When collected:	sources_income=1
Field Width:	50 digits
Tolerance:	No errors
Values:	Text

Processed tree and forest products

8.5.19. Production of processed products

[hh_pro_pdt]

Record the name of processed products produced by HH members in the past 12 months. Multiple answers are possible.

When collected:	sources_income=2
Field Width:	1 digit

Tolerance:	No errors	
Values:	Code	Description
	1	Charcoal
	2	Wooden furniture
	3	Wooden agricultural appliances
	4	Handicrafts
	5	Ash
	96	Others (specify)

8.5.20. Quantity of processed product production

[quantity_production]

Record total quantity of each processed product produced in the past 12 months including unit of the processed products. The question is linked with question no. 8.5.19. Multiple values are possible.

When collected:	sources_income=2
Field Width:	4 digits
Tolerance:	No errors
Values:	0,001-1,000

8.5.21. HH members involved in processed products

[hh_processed_product]
Record the number of HH members involved in processing products. Multiple values are possible.

When collected:	sources_income=2
Field Width:	2 digits
Tolerance:	No errors
Values	01-10

8.5.22. No. of months involved in processed products
[months_processed]

Record the number of months of HH members involved in processing each of tree and forests products in the past 12 months. If more than one HH member involved in processing, then calculate the total months and write the average month. Multiple values are possible.

When collected:	sources_income=2
Field Width:	2 digits
Tolerance:	No errors
Values:	01-12

8.5.23. Days of processed products
[days_processed]

Record the number of days in a month involved of each of tree and forests processed products by the HH members. If more than one HH member involved in processing, then calculate the total days in a month and write the average day. Multiple values are possible.

When collected:	sources_income=2
Field Width:	2 digits
Tolerance:	No errors
Values:	01-30

8.5.24. Hours spend for tree and forest products processed
[hours_processed]
Record the number of hours spent in a day for processing tree and forests products. If more than one HH member involved in processing, then calculate the total hours in a day and write the average hour. Multiple values are possible.

When collected:	sources_income=2
Field Width:	2 digits
Tolerance:	No errors
Values:	0.1-24

8.5.25. Buying of processed raw materials

[buy_raw]

Record the answer whether HH buys any raw materials for producing the processed products based on the answers received from question no. 8.5.19. Multiple values are possible. Please tick ☑ mark in the paper form.

When collected:	sources_income=2	
Field Width:	1 digit	
Tolerance:	No errors	
Values:	Code	Description
	0	No, go to the question 8.5.27
	1	Yes, go to the question 8.5.26

8.5.26. Cost of raw materials
[cost_raw_materials]
Record the costs (in BDT) of raw materials in a month for producing the processed products. Multiple values are possible. It is noted that respondent may be unable to answer month wise cost, in this case enumerator will ask total cost in a year. Then convert yearly cost to monthly cost.

When collected:	buy_raw=1
Field Width:	6 digits
Tolerance:	No errors
Values:	000,001-100,000

8.5.27. Hiring labour for making processed products

[hire_labor]

Record whether HH hired any labour for making processed products from tree and forest resources.

When collected:	sources_income=2	
Field Width:	1 digit	
Tolerance:	No errors	
Values:	Code	Description
	0	No, go to the question 8.5.29
	1	Yes, go to the question 8.5.28

8.5.28. Labor cost for processing product

[labor_cost]

Record the labor cost in a month (in BDT) for processing products. Labour cost includes day or bonding labour. It is noted that respondent may be unable to answer month wise labour cost, in this case enumerator will ask total labour cost in a year. Then convert yearly labour cost to monthly labour cost. Multiple values are possible.

When collected:	hire_labor=1
Field Width:	5 digits
Tolerance:	No errors
Values:	00,001-10,000

8.5.29. Selling of processed products

[sell_processed]

Record whether HH sold any processed products from tree and forest resources in the past 12 months. Please tick mark in the paper form.

When collected:	sources_income=2	
Field Width:	1 digit	
Tolerance:	No errors	
Values:	Code	Description
	0	No, go to the question 8.5.38
	1	Yes, go to the question 8.5.30

8.5.30. Quantity of processed product sold

[quantity_sold]

Record total quantity of each processed product sold in the past 12 months including unit of the processed products. The question is linked with question no. 8.5.19. Multiple values are possible.

When collected:	sell_processed=1
Field Width:	4 digits
Tolerance:	No errors
Values:	0001-1000

8.5.31. HH members involved in selling processed products

[hh_processed_selling]
Record the number of HH members involved in selling of processing products. Multiple values are possible.

When collected:	sell_processed=1
Field Width:	2 digits
Tolerance:	No errors
Values	01-10

8.5.32. No. of months involved in selling of processed products
[months_selling]

Record the number of months of HH members involved in selling each of tree and forests processed products in the past 12 months. If more than one HH member involved in selling, then calculate the total months and write the average month. Multiple values are possible.

When collected:	sell_processed=1
Field Width:	2 digits
Tolerance:	No errors
Values:	01-12

8.5.33. Days of selling processed products

[days_selling]

Record the number of days in a month involved in selling of each of tree and forests processed products by the HH members. If more than one HH member involved in selling, then calculate the total days in a month and write the average day. Multiple values are possible.

When collected:	sell_processed=1
Field Width:	2 digits
Tolerance:	No errors
Values:	01-30

8.5.34. Hours spend for selling the tree and forest processed products
[hours_selling]
Record the number of hours in day for selling each of tree and forests products processed by the HH members. If more than one HH member involved in selling, then calculate the total hours in a day and write the average hour. Multiple values are possible.

When collected:	sell_processed=1
Field Width:	2 digits
Tolerance:	0.1-24

8.5.35. Income from selling of processed products

[income_processed]

Record the approximate monthly income from selling the processed products. The question is linked with question no. 8.5.19. Multiple values are possible. It is noted that respondent may be unable to answer month wise income, in this case enumerator will ask total income in a year. Then convert yearly income to monthly income.

When collected:	sell_processed=1
Field Width:	6 digits
Tolerance:	No errors
Values:	000,001-300,000

8.5.36. Costs for selling processed products

[cost_selling_processed]

Record whether HH requires any costs (e.g., transportation and other costs) for selling the processed products in the past 12 months. Please tick mark in the paper form.

When collected:	sell_processed=1	
Field Width:	1 digit	
Tolerance:	No errors	
Values:	Code	Description
	0	No, go to the question 8.5.38
	1	Yes, go to the question 8.5.37

8.5.37. Transportation and other cost for selling the processed products

[transport_other_cost]

Record the transportation and other costs (in BDT) in a month for selling the processed product or directly noted down total transportation and other cost in a year of each specific tree and forest product. Multiple values are possible. It is noted that respondent may be unable to answer month wise transportation cost, in this case enumerator will ask total transportation cost in a year. Then convert yearly transportation cost to monthly transportation cost.

When collected:	cost_selling_processed=1
Field Width:	6 digits
Tolerance:	No errors
Values:	000,001-100,000

8.5.38. Gender and age of HH members involved in processing the tree and forest products

[gen_age_pdt]

Record gender and age class of the HH members involved in processing of tree and forest products. Multiple values are possible.

When collected:	sources_income=2				
Field Width:	1 digit				
Tolerance:	No errors				
Values:	Code	Description			
		Gender	Age class		
			<15 years Male	15-29 years	30-64 years	>64 years
	1	Male				
	2	Female				
	3	Third gender				

8.5.39. Gender and age of HH members involved in selling of tree and forest processed products

[gen_age_sell]

Record gender and age of the HH members involved in selling of tree and forest processed product collection. Multiple values are possible.

When collected:	sources_income=2				
Field Width:	1 digit				
Tolerance:	No errors				
Values:	Code	Description			
		Gender	Age class		
			<15 years Male	15-29 years	30-64 years	>64 years
	1	Male				
	2	Female				
	3	Third gender				

Employment in tree and forest related activities

8.5.40. HH members employed in tree and forest related institution

[hh_employed_tree]

Record the number of HH members employed in tree and forest related institution/business according to age class and gender. The employment includes wage labour, working in the furniture, saw mill, transportation (loading and unloading), salaried job including government and non-government, factory related to tree and forests. Please also record number of months in a year they employed and average monthly salary. Multiple values are possible.

Variables	8.5.40.1. Total number of HH employed	8.5.40.2. Gender □1=Male □2=Female □3=Third gender	8.5.40.3. Age (in years)	8.5.40.4. Number of months employed in a year (months/yr)	8.5.40.5. Average monthly salary BDT/month
Data item name	[hh_employ]	[hh_genem]	[hh_ageemp]	[mnth_emp]	[hh_empsala]
Field When collected	sources_income=3				
Width:	2 digits	1 digit	2 digits	2 digits	6 digits
Tolerance:	No errors	No errors	No errors	No errors	No errors
Values:	01-10	Code	18-80	01-12	000,000-300,000

8.5.41. Income other than tree and forests
Record the HH income those are not associated with trees and forests. Amount in BDT [hh_income_other]

When collected:	All	
Field Width:	1 digit	
Tolerance:	No errors	
Values:	Code	Description
	0	No, go to the question 8.5.43
	1	Yes, go to the question 8.5.42

8.5.42. HH annual income other than tree and forests
Record the HH monthly income those are not associated with trees and forests. Amount in BDT. [income_other_tree]

When collected:	hh_income_other =1
Field Width:	7 digits
Tolerance:	No error
Values:	0,000,001- 5,000,000

8.5.42.1. Other sources of income

[other_sources_type]
Record type of other sources of income of the HH. Enumerator will mark dropdown list in the OpenForis and will tick mark at the paper form.

When collected:	income_other_tree	
Field Width:	1 digit	
Tolerance:	No errors	
Values:	Code	Description
	1	Agricultural-crops
	2	Agriculture-fish
	3	Agriculture-poultry
	4	Livestock's

5	Daily/wage labour
6	Salary job other than tree and forest related
7	Business other than forest related
8	Remittance
9	Social safety nets
96	Others (specify)

8.5.42.2. Income from other sources in the past 12 months

[income_other_sources]

Reord money earned in the past 12 months from other sources.

When collected:	other_sources_type
Field Width:	7 digits
Tolerance:	No error
Values:	0,000,001- 5,000,000

HH dependence on tree and forests for energy
8.5.43. Types of energy used for cooking and heating in the household
Record the type of energy used for cooking and heating in the household. Multiple answers are possible. It includes both collection and buying of wood fuel energy.
[type_energy_use]

When collected:	All	
Field Width:	1 digit	
Tolerance:	No errors	
Values:	Code	Description
	1	Firewood
	2	Leaves and other tree biomass
	3	Charcoal
	4	Briquette
	5	LP gas
	6	Kerosene
	7	Biogas
	8	Cow dung
	9	Agricultural residues-straw and other materials collected from agricultural field for fuel purposes
	96	Other (specify)

8.5.44. Quantity of energy consumption

Record the quantity of energy consumption per month in the past 12 months along with unit of consumption. All measurement unit is kg.
[quanity_ener_cons]

When collected:	All
Field Width:	4 digits
Tolerance:	No errors
Values:	0,001 to 1,000

8.5.45. Money spent on energy

[money_energy]

Record whether HHs buy any energy for own and other consumptions

When collected:	All	
Field Width:	1 digit	
Tolerance:	No errors	
Values:	Code	Description
	0	No, go to the question 8.5.47
	1	Yes, go to the question 8.5.46

8.5.46. HH monthly spent on energy for cooking and heating
Record the money spent for buying energy (cooking and heating) per month based on type of energy used answered from the question no. 8.5.43. The amount in BDT.

[expenditure_energy]

When collected:	money_energy=1
Field Width:	5 digits
Tolerance:	No errors
Values:	00,001 to 10,000

8.5.47. Dependency on firewood, leaves and other biomass

Records the dependency level on firewood, leaves and other biomass (options 1 and 2 in answer to 8.5.43) for HH cooking and heating purposes.

[dependency_woodfuel]

When collected:	All	
Field Width:	1 digit	
Tolerance:	No errors	
Values:	Code	Description
	1	Use them very little
	2	Use them about half the time
	3	Use them most of the time
	4	Always use them

8.5.48. Tree and forest services other than income, food and energy

[tree_forest_services]

Record tree and forest services received other than income, food and energy in the past 12 months. *Please read out the options and make the respondent understand these. Multiple answers are possible.*

When collected:	All	
Field Width:	1 digit	
Tolerance:	No errors	
Values:	Code	Description
	1	Freshwater/water conservation
	2	Livestock grazing
	3	Shade
	4	Soil quality and fertility
	5	Erosion control
	6	Natural windbreak
	7	Tourism
	8	Recreation
	9	Aesthetic
	10	Religious/Spiritual
	11	Medicinal
	12	Pollution control
	96	Others (specify)

8.5.49. Three most important tree and forest services

[rank_tree_services]

Rank the three most important tree and forest services of the services that HH has benefited in the past 12 months. Multiple answers are possible

When collected:	All
Field Width:	1 digit
Tolerance:	No errors
Values:	1-3

8.6. Progress in measuring SFM

Conflict related to trees and forests

8.6.1. Conflict related to land and forest access

Record whether there are any conflicts occurred related to tree and forest in the union in the past 12 months. Conflicts refer to disagreement among the users groups, different government and non-government as well as private companies related to forest collection and accessing, boundary, crop cultivation, encroachment.

[conflict_tree]

When collected	All	
Field Width	1 digit	
Tolerance	No errors	
Values	Code	Description
	0	No, please go to question 8.6.5
	1	Yes, please go to question 8.6.2-8.6.4

8.6.2. Type of conflict

Record the type of conflict exist in the union in the past 12 months.

[type_conflict]

When collected	conflict_tree=1	
Field Width	1 digit	
Tolerance	No errors	
Values	Code	Description
	1	Land ownership
	2	Access to tree and forest resources
	3	Forest land boundaries
	96	Other (please specify)

8.6.3. Frequency of conflict

Record the number of times conflicts happened in the last 12 months in the union based on the answered received from the question no. 8.6.2.

[frequency_conflcit]

When collected	conflict_tree=1	
Field Width	1 digit	
Tolerance	No errors	
Values	Code	Description
	1	1 time/yr
	2	2 times/yr
	3	3 times/yr
	4	4 times/yr
	5	< 4 times/yr

8.6.4. Solving the conflicts
Record who manages/resolves the conflicts in the union. Multiple values are possible.
[conflict_manage]

When collected	conflict_tree=1	
Field Width	1 digit	
Tolerance	No errors	
Values	Code	Description
	0	Nobody solves, conflicts remained unsolved
	1	Community leader- (Headman, Karbari, *Murobbi,* village leader)
	2	Forest Department officials (BFD officials)
	3	Local administration (Deputy Commissioner/Upazila Nirbahi Officer)
	4	Police administration
	5	Local government (Zila/Upazila/Union parishad)
	96	Other (specify)….

Compliance with laws and regulations related to forests and tree resources

8.6.5. Penalties for violation of forest related rules

Record the respondent answer whether he/she observed any penalties related to the violation of forest related rules in past 12 months.
[penalty_forest]

When collected	All	
Field Width	1 digit	
Tolerance	No errors	
Values	Code	Description
	0	No, please ask question no. 8.6.9
	1	Yes, please ask question no. 8.6.6-8.6.8

8.6.6. Common penalties

Record the common penalties for the violation tree and forest related rules. Multiple answers are possible.

[common_penalties]

When collected	penalty_forest=1	
Field Width	1 digit	
Tolerance	No errors	
Values	Code	Description
	1	Fine-cash amount paid to the law enforcer
	2	Permanent exclusion from resource use/collection
	3	Jail term-court jail those who violates the forest rules
	96	Other (specify)---

8.6.7. Forest law enforcement

Record the level of forest law enforcement in the union. Enumerator will mark the answer based on respondent answer. Only one option is possible.

[law_enforcement]

When collected	penalty_forest=1	
Field Width	1 digit	
Tolerance	No errors	
Values	Code	Description
	0	No law enforcement
	1	Very weak: presence less than 5% law enforcement
	2	Weak: presence 5-10% law enforcement
	3	Moderately strong: presence 11-40% of law enforcement
	4	Strong: presence 41-70% of law enforcement
	5	Very strong: presence over 70% law enforcement
	99	Don't know-HH does not know any law enforcement in this union related to tree and forest rules violation

8.6.8. Law enforcer

Record the authority who ensures law enforcement related to forest and trees in the union. Multiple values are possible.

[law_enforcer]

When collected	penalty_forest=1	
Field Width	1 digit	
Tolerance	No errors	
Values	Code	Description
	0	Nobody
	1	Community leader- (Headman, Karbari, *Murobbi,* village leader)
	2	Forest Department officials (BFD offcials)
	3	Local administration (Deputy Commissioner/Upazila Nirbahi Officer)
	4	Police administration
	5	Local government (Zila Parishad/Upazila/Union parishad)
	96	Other (specify)…..

Participation of tree and forest management

8.6.9. Presence of community or co-managed forests

Record whether there is any community or co-management forest activities in the union. First enumerator will ask question and note down the answer according to the option.

[co_present]

When collected	All	
Field Width	1 digit	
Tolerance	No errors	
Values	Code	Description
	0	No, please go to the question no. 8.6.16
	1	Yes, please go to the question no. 8.6.10

8.6.10. Involvement co-management

Record the HH involvement in community or co-management forest activities. First enumerator will ask question and note down the answer according to the option.

[co_involvement]

When collected	co_present=1	
Field Width	1 digit	
Tolerance	No errors	
Values	Code	Description
	0	No, please go to the question no. 8.6.12
	1	Yes, please go to the question no. 8.6.11

8.6.11. Years of involvement with community or co-management
Record the number of years of HH involvement in community or co-management forest activities.
[co_year]

When collected	co_involvement=1
Field Width	2 digits
Tolerance	No errors
Values	00-50

8.6.12. Distance of the community or co-management forests

Record the distance of community or co-managed forests from the house. Please record the distance in kilometers (km).
[co_distance]

When collected	co_involvement=1
Field Width	2 digits
Tolerance	No errors
Values	00-20

8.6.13. Any benefits for tree and forest management
Record whether HH gets any benefits or not for involvement in community or co-management forest activities.
[benefit_co]

When collected	co_involvement=1	
Field Width	1 digit	
Tolerance	No errors	
Values	Code	Description
	0	No, please go to the question no. 8.6.16
	1	Yes, please go to the question no. 8.6.14

8.6.14. Type of benefits for tree and forest management

Record type of benefits received by HH for involvement in community or co-management forest activities. Multiple values are possible.
[type_benefit]

When collected	benefit_tree=1	
Field Width	1 digit	
Tolerance	No errors	
Values	Code	Description
	1	Cash, please go to the question no 8.6.15
	2	Training
	3	Exposure visit
	4	In kind support on alternative income generating activities, livestock, seedlings etc
	96	Others (please specify)

8.6.15. Income from co-management
Record the total amount of money (option 1 in the answer to the question no. 8.6.14) received since involvement in community or co-management forest activities. The amount in BDT.
[co_income]

When collected	type_benefit=1
Field Width	6 digits
Tolerance	No errors
Values	000,000-100,000

Social forestry
8.6.16. Involvement with social forestry

Record whether HH involve in forest department social forestry activities or not. If HH answer "Yes" then proceed next questions from 8.6.17. If answer no, then proceed to question no. 8.6.21. Only record forest department social forestry activities.

[sf_involvement]

When collected	All	
Field Width	1 digit	
Tolerance	No errors	
Values	Code	Description
	0	No, please go to the question 8.6.21
	1	Yes, please continue to ask the question 8.6.17

8.6.17. Years of involvement at social forestry

Record the number of years of HH involvement in the social forestry. Only record forest department social forestry activities.
[sf-year]

When collected	sf_involvement=1
Field Width	2 digits
Tolerance	No errors
Values	00-30

8.6.18. Distance of social forestry
Record the distance of social forestry from the house. Please record the distance in kilometers (km).
[sf_distance]

When collected	sf_involvement=1
Field Width	2 digits
Tolerance	No errors
Values	00-20

8.6.19. Benefits from social forestry

Record type of benefits received by HH for involvement in social forestry activities of Bangladesh Forest Department. Only record forest department social forestry activities.
[social_benefit]

When collected	sf_involvemen=1	
Field Width	1 digit	
Tolerance	No errors	
Values	Code	Description
	1	Cash, please go to the question no 8.6.20
	2	Dead leaves and branches as wood energy
	96	Others (please specify)

8.6.20. Income from social forestry

Record the total amount of money (option 1 in the answer to the question no. 8.6.19) received since involvement in social forestry activities. The amount in BDT.
[sf_income]

When collected	social_benefit=1
Field Width	7 digits
Tolerance	No errors
Values	0,000,000-1,000,000

Support from the Bangladesh Forest Department

8.6.21. Tree seedlings from FD

Record whether HH received any tree seedlings from the Forest Department (FD) in past 12 months.
[fd_tree]

When collected	All	
Field Width	1 digit	
Tolerance	No errors	
Values	Code	Description
	0	No, please ask question 8.6.25
	1	Yes, please ask question from 8.6.22

8.6.22. Number of species received

Record total number of species of seedlings received from FD in past 12 months.

[species_number]

When collected	fd_tree=1
Field Width	2 digits
Tolerance	No errors
Values	01-15

8.6.23. Number of seedlings

Record the number of seedlings received from the FD in the past 12 months.
[seedlings_number]

When collected	fd_tree=1
Field Width	2 digits
Tolerance	No errors
Values	0,001-1,000

8.6.24. HH requirement for increasing the tree cover

Record the three most important supports required by HH for increasing tree cover on their land and outside of land.
[hh_requirement]

When collected	fd_tree=1
Field Width	50 digits
Tolerance	No errors
Values	Text

8.6.25. Bought seedlings from own money

Record whether HH bought any seedlings from own money in past 12 months.

[seed_own]

When collected:	All	
Field Width:	1 digit	
Tolerance:	No errors	
Values:	Code	Description
	0	No, please go to question no. 8.6.27
	1	Yes, please go to question no. 8.6.26

8.6.26. Money spent for tree seedlings

Record the amount of money spent for buying the tree seedlings in the past 12 months. Amount in BDT

[own_money_spent]

When collected	seed_own=1
Field Width	6 digits
Tolerance	No errors
Values	000,001-100,000

Progress towards achieving SFM-support for tree and forest management

8.6.27. Support from different organization
Record whether HH received any support from different organizations for the tree and forest management.
[support_organization]

When collected	All	
Field Width	1 digit	
Tolerance	No errors	
Values	Code	Description
	0	No, please ask question 8.6.30
	1	Yes, please ask question, 8.6.28- 8.6.29

8.6.28. Type of support

Record the type of support received from different organizations. Multiple answers are possible.

[type_support]

When collected	support_organization=1	
Field Width	1 digit	
Tolerance	No errors	
Values	Code	Description
	1	Training on raising nursery
	2	Training on tree planting
	3	Training on tree and forest management
	4	Training in forest product collection and processing
	5	Free seedlings
	6	Cash amount
	96	Other (please specify-------)

8.6.29. Type of organization
Record the names of organizations from where HH received support for tree and forest management. Multiple answers are possible.

[type_organization]

When collected	support_organization=1	
Field Width	1 digit	
Tolerance	No errors	
Values	Code	Description
	1	Forest Department
	2	Local Government (pourashava, upazila and union parishad)
	3	Other government organizations
	4	Non-Government Organization
	96	Other (please specify------)

8.6.30. Three most important tree species

Record the three most important tree species (English/local name) HH wanted to plant.

[tree_important]

When collected:	support_organization=1
Field Width:	50 digits
Tolerance:	No errors
Values:	Text

8.7. HH land ownership

8.7.1. HH land ownership

Record whether HH have any lands or not.

[hh_land]

When collected:	All	
Field Width:	1 digit	
Tolerance:	No errors	
Values:	Code	Description
	0	No, please go to the question 8.8.1.
	1	Yes, please go to the question 8.7.2-8.7.3

8.7.2. Type of land ownership

Record the type of land ownership the HH have. Multiple answers are possible.
[type_land_own]

When collected:	hh_land=1	
Field Width:	1 digit	
Tolerance:	No errors	
Values:	Code	Description
	1	Ownd homestead land
	2	Leased or rented homestead land
	3	Owned tree and bamboo plantations outside of homestead land
	4	Leased or rented tree and bamboo plantations outside of homestead land
	5	Owned agricultural land
	6	Leased, rented or share-cropped agricultrual land
	96	Other (please specify-------)

8.7.3. Size of land

Record the approximate land size (in decimal) according to land ownership type. The question is linked with the question no. 8.7.2
[land_size]

When collected	hh_land=1
Field Width	2 digits
Tolerance	No errors
Values	01-30

8.8. Zone specific questions

Sundarbans and coastal zone: Protective functions of trees and forests

8.8.1. HH's assets located in coast line

Record the distance of HH assets (e.g. house, agricultural land, livestock, trees, fish pond and shrimp farm) to coast line (the area where there are no Sundarbans and Coastal plantation) (control households). The location can be verified in the land cover class map, and code of land cover class to be noted. The distance can be measured in (km).

[hh_assets_sunda]

When collected:	Sundarbans and coastal	
Field Width:	1 digit	
Tolerance:	No errors	
Values:	Code	Description
	1	Withing one kilometre (km)
	2	Between one and two km
	3	Between two and three km
	4	Beyond three km

8.8.2. HH's assets located in inner boundary of the Sundarbans or coastal plantations

Record the distance of HH assets (e.g. house, agricultural land, livestock, trees, fish pond and shrimp farm) to inner boundary of the Sundarbans or coastal plantations (treatment households). The location can be verified in the land cover class map, and code of land cover class to be noted. The distance can be measured in km.

[hh_assets_innerbound]

When collected:	Sundarbans and coastal	
Field Width:	1 digit	
Tolerance:	No errors	
Values:	Code	Description
	1	Withing one kilometre (km)
	2	Between one and two km
	3	Between two and three km
	4	Beyond three km

8.8.3. Assets damaged by cyclone

[asset_damage]

Please record whether any cyclones that damages HH assets in the past 10 years.

When collected:	Sundarbans and coastal	
Field Width:	1 digit	
Tolerance:	No errors	
Values:	Code	Description
	0	No
	1	Yes, please continue to ask question no. 8.8.4-8.8.5

8.8.4. Type of damage occurred

Record the type of HH assets damaged in the past 10-yearcyclone. Ask HH the type of damaged and then read out the option for further understanding.

[hh_damaged]

When collected:	Sundarbans and coastal	
Field Width:	1 digit	
Tolerance:	No errors	
Values:	Code	Description
	0	No loss or damages
	1	Loss of/damage to house
	2	Loss of agricultural crops
	3	Loss of/damage to trees
	4	Loss of/damage to fish ponds
	5	Loss of/damage to shrimp farms
	6	Loss of livestock
	96	Other losses or damages

8.8.5. Economic cost of damages

Record the economic loss of the HH due to the last 10 years of cyclone in line with question no. 8.8.3. Please record the amount in BDT.

[hh_economic_lost]

When collected:	Sundarbans and coastal
Field Width:	6 digits
Tolerance:	No errors
Values:	000,001-500,000

Sundarbans zone: Economics and livelihood

8.8.6. Pass permit for the collection of primary forest products

Record whether HH require any pass permit for the collection of primary forest products from the forests.
[pass_permit]

When collected:	Sundarbans zone	
Field Width:	1 digit	
Tolerance:	No errors	
Values:	Code	Description
	0	No
	1	Yes, please ask questions 8.8.7-8.8.9

8.8.7. Name of the products required for pass permit

Record the name of tree and forest products for which pass permit is required. Multiple answers are possible.
[pass_permit_product]

When collected:	pass_permit=1	
Field Width:	1 digit	
Tolerance:	No errors	
	Code	Description
	1	*Nypa* (goalpata)
	2	Fish
	3	Crabs
	4	Honey
	5	Beeswax
	6	Hantal: Hantal *(Phoenix paludosa)* is a small, clump-forming erect palm. It is distributed throughout the Sundarbans, particularly in dry banks of khals, rivers and creeks.
Values:	7	Hogla: Hogla leaves are woven into mats used for beds, to dry crop on and for prayer mats
	8	Prawn (shrimp) and shells
	96	Others (specify)

8.8.8. Frequency of collection.

Please record the frequency (number of collection) of product collection from Sundarbans in past 12 months in line with the question no. 8.8.7

[number_collection]

When collected:	entry_fee=1
Field Width:	3 digits
Tolerance:	No errors
Values:	001-100

8.8.9. Amount of pass permit

Please record amount of pass permit per trip for each product. The answer will be in line with the question no. 8.8.7

[amount_entry]

When collected:	entry_fee=1
Field Width:	5 digits
Tolerance:	No errors
Values:	00,001-10,000

Hill, Coastal and Sundarbans zone- Economics and livelihood- value of potable water:

8.8.10. Sources of HH drinking water

Record the sources of HH's drinking water. The question can be asked very carefully. In the field test, it has been found that Sundarbans and Coastal zone HH are dependent on ponds for drinking of water. On the other hand, option 1-3 are mostly related to Hill zone. Multiple answers are possible.
[sources_water]

When collected	Hill, Coastal and Sundarbans zone	
Field Width	1 digit	
Tolerance	No errors	
Values	Code	Description
	1	Seepage water from hills: The water comes from through porous material or small holes in the hills
	2	Natural streams: A stream is a body of water with a current, confined within a bed and banks. Vegetation growing on or near the banks of a stream or other water body.
	3	Wells
	4	Ponds
	5	Rain water
	96	Other sources (please specify)

8.8.11. Location of sources of water

Please note down the code of land cover class from where water was collected for drinking [location_water_sources]

When collected:	Hill, Coastal and Sundarbans zone	
Field Width:	1 digit	
Tolerance:	No errors	
	Code	Description
	FH	Hill Forest
	FDp	Plain Land Forest (Sal Forest)
	BF	Bamboo Forest
	S	Shrub Dominated Area (Terrestrial)
	ShF	Shrub Dominated Forest Area
	H	Herb Dominated Area (Terrestrial)
	SF	Swamp Forest
	NMF	Mangrove Forest
	SWr	Swamp Reed Land
	FP	Forest Plantations
	FPr	Rubber Plantation
	OT	Orchards and Other Plantations (Trees)
	OS	Orchards and Other Plantations (Shrubs)
	PCs	Single Crop
	PCm	Multiple Crop
	SC	Shifting Cultivation
	FMp	Mangrove Plantation
Values:	FSp	Swamp Plantation
	MF	Mud Flats or Intertidal Area
	BS	Sand
	RB	River Banks
	BNL	Built-Up Non-Linear
	DS	Dump Sites/ Extraction Sites
	SP	Salt Pan
	B	Brickfields
	Ap	Airport
	R	Rivers and Khals
	Ba	Baor
	BH	Perennial Beels/Haors
	L	Lake
	Po	Ponds
	BWa	Brackish Water Aquaculture
	FWa	Fresh Water Aquaculture
	RS	Rural Settlement

8.8.12. HH members involved in water collection

Record the number of HH members involved in water collection form the sources.
[hh_water_collect]

When collected:	Hill, Coastal and Sundarbans zone
Field Width:	2 digits
Tolerance:	No errors
Values:	01-15

8.8.13. Months of water collection

Record the number of months the HH collected water in the past 12 months.
[months_water]

When collected:	Hill, Coastal and Sundarbans zone
Field Width:	2 digits
Tolerance:	No errors
Values:	01-12

8.8.14. Days of water collection

Record the number of days the HH collect water in a month.
[days_water]

When collected:	Hill, Coastal and Sundarbans zone
Field Width:	2 digits
Tolerance:	No errors
Values:	01-30

8.8.15. Hours of water collection

Record the number of hours in a day of the HH spent in collecting water.
[hours_water

When collected:	Hill, Coastal and Sundarbans zone
Field Width:	2 digits
Tolerance:	No errors
Values:	01-24

8.8.16. Amount of water collection

Record the amount of water the HH collected per day, measured in litters.
[amount_water]

When collected:	Hill, Coastal and Sundarbans zone
Field Width:	2 digits
Tolerance:	No errors
Values:	01-30

8.8.17. Transportation cost for water collection
Record the transportation costs per month (in BDT) for being collected water for home.
[cost_water_trans]

When collected:	Hill, Coastal and Sundarbans zone
Field Width:	4 digits
Tolerance:	No error
Values:	0001- 5,000

8.8.18. Treatment of water before drinking

Record the answer whether HH treat or not collected water before drinking
        [water_treat]

When collected	Hill, Coastal and Sundarbans zone	
Field Width	1 digit	
Tolerance	No errors	
Values	Code	Description
	0	No, please ask the question 9.1
	1	Yes, please ask the question 8.8.19-8.8.20

8.8.19. Types of water treatment

Record the types of water treatment before drinking. Multiple answers are possible
[type_water_treat]

When collected	water_treat=1	
Field Width	1 digit	
Tolerance	No errors	
Values	Code	Description
	0	No money is required
	1	Natural means (e.g. using stones and sand)
	2	Using chemicals
	96	By other means

8.8.20. Cost of water treatment

Record the cost of water treatment before drinking in BDT/10litre. The question is linked with the question no. 8.8.19

[cost_water_treat]

When collected:	water_treat=1
Field Width:	4 digits
Tolerance:	No error
Values:	0,001- 1,000

9. Finalization
9.1 Picture taken
[hh_picture]
Please take a photo of the location of HH, if allowed. The picture can be taken in landscape.

When collected	All	
Field Width	1 digit	
Tolerance	No errors	
Values	Code	Description
	0	No
	1	Yes

9.2. Household note

[hh_note]

Please record any important features/facts of the household.

When collected	All
Field Width	100 digits
Tolerance	No errors
Values	Text

9.3. Time end

Record the time when the enumerator finished interview of the household.

[end_time]

When collected:	All
Field Width:	4 digits
Tolerance:	No errors
Values:	HH: MM

9   Detailed instruction for community survey field form

9.1. Community unique number

Record the community survey unique number. If the community no 5, record 005, if the household no. 50, record 050. The community number will be distributed among the zones. For example, Sundarbans (1-20), Coastal (21-40), Hill zone (41-60), Sal zone (61-80) and Villages (81-100).

[comm_unique_no]

When collected:	All
Field Width:	3 digits
Tolerance:	No errors
Values:	001 to 100

9.1.2. Discussion date

Record the date of discussion with the participants. OpenForis is automatically calculated. If OpenForis is not operational, please write down in the paper form.

[date_fgd]

When collected:	All
Field width:	List
Tolerance:	No errors
Values:	Dates

9.1.3. Division

Record the administrative division name where discussion is taken place. OpenForis is automatically calculated administrative division name. If OpenForis is not operational, please write down in the paper form.

[division_name]

When collected:	All
Field Width:	2 digits
Tolerance:	No errors
Values:	List provided by BBS

9.1.4. District

Record administrative district name where discussion is taken place. OpenForis is automatically calculated administrative division name. If OpenForis is not operational, please write down in the paper form.

[distict_name]

When collected:	All
Field Width:	2 digits
Tolerance:	No errors
Values:	List provided by BBS

9.1.5. Upazila

Record administrative Upazila name where discussion is taken place. OpenForis is automatically calculated administrative division name. If OpenForis is not operational, please write down in the paper form.

[upazila_name]

When collected:	All
Field Width:	2 digits
Tolerance:	No errors
Values:	List provided by BBS

9.1.6. Union

Record administrative Union name where discussion is taken place. OpenForis is automatically calculated administrative division name. If OpenForis is not operational, please write down in the paper form.

[union_name]

When collected:	All
Field Width:	2 digits
Tolerance:	No errors
Values:	List provided by BBS

9.1.7. Mauza

Record administrative Mauza name where discussion is taken place. Please type the Mauza name in the tablet. If OpenForis is not operational, please write down in the paper form.

[mauza_name]

When collected:	All
Field Width:	2 digits
Tolerance:	No errors
Values:	Text

9.1.8. Ward

Record administrative ward name where discussion is taken place. Please type the ward name in the tablet. If OpenForis is not operational, please write down in the paper form.

[ward_name]

When collected:	All
Field Width:	2 digits
Tolerance:	No errors
Values:	Text

9.1.9. Village

Type the name of village where discussion is taken place. Please type the village name in the tablet. OpenForis is not operational, please write down in the paper form.

[village_name]

When collected:	All
Field Width:	50 digits
Tolerance:	No errors
Values:	Text

9.1.10. Zone

[zone_comm]
Record the zone name of the community survey location. The zone refers to the areas used to stratify the socioeconomic survey design. It is automatically calculated in the tablet. If OpenForis is not operational, please type the zone name in the paper form.

When collected:	All	
Field Width:	1 digit	
Tolerance:	No errors	
Values:	Code	Description
	1	Coastal
	2	Hill
	3	Sal
	4	Sundarbans
	5	Village

9.1.11. Stratum

Record the strata name where community survey is held. This information is automatically calculated. If tablet is not operational, please type the stratum name.
[stratum_name]

When collected:	All	
Field Width:	1 digit	
Tolerance:	No errors	
Values:	Code	Description
	1	Coastal1
	2	Coastal2
	3	Coastal3
	4	Coastal4
	5	Hill1
	6	Hill2
	7	Hill3
	8	Hill4
	9	Sal1
	10	Sal2
	11	Sal3
	12	Sal4
	13	Village1

14	Village2
15	Village3
16	Village4
17	Sundarbans1
18	Sundarban2
19	Sundarban3
20	Sundarban4

9.1.12. Forest division

Record forest division name under jurisdiction of forest department. This information is automatically calculated. If tablet is not operational, please type the forest division name.

[forest_div]

When collected:	All
Field Width:	2 digits
Tolerance:	No errors
Values:	List provided by BFD (Annex 4: Forest divisions)

9.1.13. Forest range

Record forest range name under jurisdiction of forest department. This information is automatically calculated. If tablet is not operational, please type the forest range name.

[forest_rang]

When collected:	All
Field Width:	2 digits
Tolerance:	No errors
Values:	List provided by BFD (Annex 5: Forest ranges)

9.1.14. Forest beat

Record forest beat name under jurisdiction of forest department. This information is automatically calculated. If tablet is not operational, please type the forest beat name.

 [forest_beat]

When collected:	All
Field Width:	2 digits
Tolerance:	No errors
Values:	List provided by BFD (Annex 6: Forest Beats)

9.1.15. GPS coordinate

The GPS coordinate refer to the location where community survey took place. Record the North-South and East-West GPS coordinates. The GPS coordinates are recorded in degree, minutes and secondsl using the geographic coordinate system WGS84.
[gps_coordinate]

When collected:	All
Field Width:	14 digits
Tolerance:	+/- 10 m
Values:	Degree, minutes seconds

9.1.16. Time start
Record the time when the community survey is started. This information is automatically calculated in the OpenForis. If not please write in the paper form.
[start_time]

When collected:	All
Field Width:	4 digits
Tolerance:	No errors
Values:	HH:MM

9.1.17. Name of interviewer
Record the name of the interviewer of community survey conducted.
 [name_interviewer]

When collected:	All
Field width:	50 digits
Tolerance:	No errors
Values:	Text

9.2. Participants Information

9.2.1. Name of the participant
Record participants name   those who are attended in the community discussion. The number of participants should be 8-10 in which at least 30% of female.

[name_participants]

When collected:	All
Field width:	50 digits
Tolerance:	No errors
Values:	Text

9.2.2. Age of the participants
Record age of the participants attended in the community discussion.
[age_participant]

When collected:	All
Field width:	3 digits
Tolerance:	No errors
Values:	018-100

9.2.3. Gender of participants
Record gender of the participants attended in the community discussion.
[gender_participant]

When collected:	All	
Field Width:	1 digit	
Tolerance:	No errors	
Values:	Code	Description
	1	Male
	2	Female
	3	Third gender

9.3. Biodiversity and conservation

9.3.1. Naturally grown plant species in the past

Record whether the plants species were abundantly available in the past, but rarely seen nowadays in the union.
[plant_sp]

When collected:	All	
Field Width:	1 digit	
Tolerance:	No errors	
Values:	Code	Description
	0	No, then please ask question 9.3.8
	1	Yes, then please ask the question 9.3.2
	99	Do not know, then please ask question 9.3.8

9.3.2. Plant species that are not available

Record five most plant species (it includes all trees, shrubs and herbs) that were abundantly, but rarely seen now-a-days in this union
[plant_past]

When collected:	All
Field Width:	50 digits
Tolerance:	No errors
Values:	Text

9.3.3. Selling of plant species
Record the answer whether community members sell the mentioned plant species
[sell_plant]

When collected:	plant_past	
Field Width:	1 digit	
Tolerance:	No errors	
Values:	Code	Description
	0	No, *please go to the question 9.3.7*
	1	Yes, *1=Yes, please go to the question 9.3.4-9.3.6*

9.3.4. Location of selling floral species

Record the location where community members usually sell the mentioned plant species. Multiple answers are possible.
  [sell_location]

When collected:	sell_plant =1	
Field Width:	1 digit	
Tolerance:	No errors	
Values:	Code	Description
	1	Nearby market
	2	Inside villages
	3	Outside villages
	96	Other (specify)

9.3.5. Measuring unit of the species

Record the measuring unit of the plant species to be sold. Ask from the community people to know the measurement unit of plant species for selling.
[unit_plant]

When collected:	sell_plant =1
Field Width:	20 digits
Tolerance:	No errors
Values:	Text

9.3.6. Unit price of the species
Record the unit price of the sold plant species.
[unit_price]

When collected:	sell_plant =1
Field Width:	4 digits
Tolerance:	No errors
Values:	0,000-1,000

9.3.7. Main reason for reduction in number

Record the reasons for main reasons of reduction in numbers of species. Multiple answer is possible.
  [reason_plant]

When collected:	All	
Field Width:	1 digit	
Tolerance:	No errors	
Values:	Code	Description
	1	Land use change
	2	Over harvesting
	3	Lack of proper management
	4	Natural disasters
	96	Other (please specify)

9.3.8. Animal species

Record whether animal species (it includes birds, mammals) that were abundantly available in the past, but rarely seen now-a-days
[animal_spp]

When collected:	All	
Field Width:	1 digit	
Tolerance:	No errors	
Values:	Code	Description
	0	No (then please ask question 9.4.1)
	1	Yes (then please ask the question 9.3.9)
	99	Do not know (then please ask question 9.4.1)

9.3.9. Animal species that are not available

Record five most animal species that are not seen now-a-days in this union
[animal_not_avail]

When collected:	animal_spp =1
Field Width:	50 digits
Tolerance:	No errors
Values:	Text

9.3.10. Selling of animal species

Record the answer whether community member sell the animal species
 [sell_animal]

When collected:	animal_spp=1	
Field Width:	1 digit	
Tolerance:	No errors	
Values:	Code	Description
	0	No, go to the question 9.3.14
	1	Yes, go to the question 9.3.11-9.3.13

9.3.11. Location of selling animal species

Record the place where animal species are sold. Multiple answers are possible.
[location_animal]

When collected:	sell_animal =1	
Field Width:	1 digit	
Tolerance:	No errors	
Values:	Code	Description
	1	Nearby market
	2	Inside villages
	3	Outside villages
	96	Others (specify)

9.3.12. Measuring unit of the species

Record the measuring unit of the animal species to be sold. Ask from the community people to know the measurement unit of animal species for selling.
[unit_plant]

When collected:	sell_plant =1
Field Width:	20 digits
Tolerance:	No errors
Values:	Text

9.3.13. Unit price of animal species

Record the unit price of sold animal species. The measurement unit is kg.
[unit_price_animal]

When collected:	sell_plant =1
Field Width:	1 digit
Tolerance:	No errors
Values:	Text

9.3.14. Main reasons for reduction in number

Record the reasons for reduction of animal species in the union. Multiple answers are possible.
[reason_animal]

When collected:	All	
Field Width:	1 digit	
Tolerance:	No errors	
Values:	Code	Description
	1	Over hunting
	2	Poaching
	3	Lack of proper management
	4	Loss of habitat
	96	Other (please specify)

9.4. Economics and livelihood
Collection and selling of tree and forest products
9.4.1. Community collection of tree and forest products

Record whether community members collect tree and forest products.
[community_collect]

When collected:	All	
Field Width:	1 digit	
Tolerance:	No errors	
Values:	Code	Description
	0	No, then please ask question 9.5.1
	1	Yes, then please continue from question 9.4.2

9.4.2. Type of tree and forest product collection

Record the type of community members collect or income generated from tree and forest products. Multiple answers are possible.

[type_product]

When collected:	community_collect=1	
Field Width:	1 digit	
Tolerance:	No errors	
	Code	Description
	1	Timber
	2	Poles
	3	Tree barks
	4	Bamboo
	5	Cane
	6	Lianas and vines
	7	Brooms
	8	Thatching materials
	9	Reeds
	10	Nypa (golpata)
	11	Bee wax
	12	Ornamental plants
	13	Medicinal plants
	14	Murta/patipata
	15	Lac
	16	Tree seedlings
	17	Fodder
	18	Seeds
	19	Fuelwood
	20	Leaves
	21	Other energy biomass
	22	Fruits
	23	Bamboo shoots
	24	Mushrooms
	25	Root tubers
	26	Other vegetables
	27	Spices
	28	Wild meat
	29	Other animal products
	30	Fish
	31	Shrimp
	32	Shrimp fry
	33	Crabs
	34	Honey
	96	Other (specify)
	35	Charcoal
	36	Wooden furniture
	37	Wooden agricultural appliance
	38	Handicrafrs
	39	Ash
	40	Others (specify)

9.4.3. Collecting and selling of the tree and forest products

Record collection and selling time of the tree and forest product. The list of months is inbuilt in the Open Foris. Multiple answers are possible. IF OpenForis is not working, please write in the paper form.

[main_har_sale]

When collected:	community_collect=1	
Field Width:	1 digit	
Tolerance:	No errors	
Values:	Code	Description
	1	Collection
	2	Selling
	3	Collection/harvesting and sale period are the same

9.4.4. Unit of measurement

Record the measurement unit of each item. Please write local unit measurement in the union.
[unit_comm]

When collected:	All
Field Width:	10 digits
Tolerance:	No errors
Values:	Text

9.4.5. Unit price of the items
Please record unit price of each product in line with questions no.9.4.2
[unit_price_comm]

When collected:	All
Field Width:	5 digits
Tolerance:	No errors
Values:	00,001 to 10,000

Most important forest and tree product and access
9.4.6. Three most important tree and forest products for cash and subsistence
Provide record the three most species for cash and subsistent tree and forest products in the locality. The product code is inbuilt in the Open Foris. The Interviewer will mark the product code based community response. If not pre-coded please write the name. If the same product is listed for both cash and subsistence, fill out both columns.
(cash_sub)

When collected:	All	
Field Width:	1 digit	
Tolerance:	No errors	
Values:	Code	Description
	1	
	2	
	3	

9.4.7. Location of collection

Please note down the code of land cover class and coordinates from the maps where tree and forest products are collected. The description of each code is described in appendix 9. Multiple responses are possible.

[location_community]

When collected:	All	
Field Width:	1 digit	
Tolerance:	No errors	
	Code	Description
	FH	Hill Forest
	FDp	Plain Land Forest (Sal Forest)
	BF	Bamboo Forest
	S	Shrub Dominated Area (Terrestrial)
	ShF	Shrub Dominated Forest Area
	H	Herb Dominated Area (Terrestrial)
	SF	Swamp Forest
	NMF	Mangrove Forest
	SWr	Swamp Reed Land
	FP	Forest Plantations
	FPr	Rubber Plantation
	OT	Orchards and Other Plantations (Trees)
	OS	Orchards and Other Plantations (Shrubs)
	PCs	Single Crop
	PCm	Multiple Crop
	SC	Shifting Cultivation
	FMp	Mangrove Plantation
	FSp	Swamp Plantation
	MF	Mud Flats or Intertidal Area
Values:	BS	Sand
	RB	River Banks
	BNL	Built-Up Non-Linear
	DS	Dump Sites/ Extraction Sites
	SP	Salt Pan
	B	Brickfields
	Ap	Airport
	R	Rivers and Khals
	Ba	Baor
	BH	Perennial Beels/Haors
	L	Lake
	Po	Ponds
	BWa	Brackish Water Aquaculture
	FWa	Fresh Water Aquaculture
	RS	Rural Settlement

9.4.8. Legal ownership of the tree and forest land

Record the legal ownership from where tree and forest products are collected. Multiple responses are possible

[land_ownership]

When collected:	All	
Field Width:	1 digit	
Tolerance:	No errors	
Values:	Code	Description
	1	Private-owned by individuals or families
	2	Forest Department
	3	Government-other institutions
	4	Community institutions
	96	Other (please specify)
	99	Unknown

9.4.9. Community access forest land in practice

Record level of community access to the most important tree and forest products both cash and subsistent. Choose one according to the discussion
[community_access]

When collected:	All	
Field Width:	1 digit	
Tolerance:	No errors	
Values:	Code	Description
	0	No access
	1	Very easy
	2	Somewhat easy
	3	Neither difficult nor easy
	4	Somewhat difficult
	5	Very difficult

9.4.10. Permission for collecting tree and forest products
Record whether community require permission for the collection of tree and forest products both cash and subsistence.
[permission_comm]

When collected:	All	
Field Width:	1 digit	
Tolerance:	No errors	
Values:	Code	Description
	0	No
	1	Yes
	99	Don't know

9.4.11. Collector of the products

Record the community response regarding the collector of the tree and forest products both cash and subsistence. Choose one from the code both cash and subsistence according to the discussion

[collect_product]

When collected:	All	
Field Width:	1 digit	
Tolerance:	No errors	
Values:	Code	Description
	1	Subsistence-oriented users in the village
	2	Small-scale commercial users in the village
	3	Large scale commercial users in the village
	4	Subsistence oriented users from outside the village
	5	Small-scale commercial users from outside the village
	6	Large scale commercial users from outside the village
	96	Other (specify)

9.4.12. Primary buyer of products

Record the community response regarding the buyer of the three and forest products both cash and subsistence. Choose one from the code both cash and subsistence according to the discussion

[buyer_product]

When collected:	All	
Field Width:	1 digit	
Tolerance:	No errors	
Values:	Code	Description
	1	Subsistence-oriented users in the village
	2	Small-scale commercial users in the village
	3	Large scale commercial users in the village
	4	Subsistence oriented users from outside the village
	5	Small-scale commercial users from outside the village
	6	Large scale commercial users from outside the village
	96	Other (specify)

9.4.13. Conflicts relation to collecting in the last five years

Record the existence of conflicts in last five years in the union.
[conflict_comm]

When collected:	All	
Field Width:	1 digit	
Tolerance:	No errors	
Values:	Code	Description
	0	No, (then please continue from Question 9.4.15)
	1	Yes, (then please proceed to Question 9.4.14)
	99	Do not know, (then please proceed to Question 9.4.15)

9.4.14. Type of conflicts

Record the type of conflicts exist in the union. Choose three most important conflict.
[conflict_comm]

When collected:	conflict_comm=1	
Field Width:	1 digit	
Tolerance:	No errors	
Values:	Code	Description
	1	*Conflicts with Forest Department*
	2	*Land-use conflicts with community members*
	3	*Land-use conflicts with neighbouring community*
	4	*Conflicts with outsiders*
	5	*Conflicts with private companies*
	96	*Other type of conflicts (please specify)*

9.4.15. Gender distribution in collecting tree and forest product

Record the gender distribution of tree and forest product collection in this union. Choose one from the discussion.

[gender_distribution]

When collected:	conflict_comm=1	
Field Width:	1 digit	
Tolerance:	No errors	
Values:	Code	Description
	1	*Only men/boys harvest the product*
	2	*Women/girls represent less than 30 % of the harvesters of the product*
	3	*Women/girls represent between 30 – 70 % of the harvesters of the product*
	4	*Women/girls represent more than 70 % of the harvesters of the product*
	5	*Only women/girls harvest the product*
	99	*Don't know*

9.4.16. Participation of children in collecting tree and forest products

Record whether children participate in collecting of tree and forest products. Choose one from the discussion

[participation_children]

When collected:	conflict_comm=1	
Field Width:	1 digit	
Tolerance:	No errors	
Values:	Code	Description
	0	*Children don't participate*
	1	*Children represent less than 30% of the collectors*
	2	*Children represent between 30 – 70% of the collectors*
	3	*Children represent more than 70% of the collectors*
	4	*Only children collect these products*
	99	*Do not know*

9.4.17. Changes of important tree and forest products

Record the changes of most important product (in the area from where it is predominately collected)

[change_mip]

When collected:	All	
Field Width:	1 digit	
Tolerance:	No errors	
Values:	Code	Description
	0	No change, (then please ask question 9.5.1)
	1	Decreased, (then please ask question 9.4.18)
	2	Increased, (then please ask question 9.4.19)

9.4.18 Main reason for decline forest product

Record the three-main reason for declining the tree and forest both cash and subsistence from the discussion
[decline_mip]

When collected:	change_mip=1	
Field Width:	1 digit	
Tolerance:	No errors	
Values:	Code	Description
	1	Increased collection for sale
	2	Reduced forest area due to small-scale clearing
	3	Reduced forest area due to large scale clearing
	4	Increased demand for MIPs from local people for own use

5	Increased demand for MIPs due to more collection from outsiders for own use
6	Legal conversion of forests into other uses
7	Fire
8	Gas exploration
9	Heavy human settlement through hill cutting
10	Natural disturbances
11	Infrastructure development (house, road, bridges and embankment)
12	Illegal extraction of forest resources
13	Lack of proper management
96	Other (specify)

9.4.19. Reasons for increasing

Record the three main reasons for increasing the most important tree species from the discussion [increase_mip]

When collected:	change_mip=2	
Field Width:	1 digit	
Tolerance:	No errors	
Values:	Code	Description
	1	Increased availability due to better forest management
	2	Less demand
	3	Fewer local (community) people collecting for own use
	4	Fewer outsiders (subsistence users) collecting for own use
	5	Fewer outsiders (commercial users) collecting/using
	6	Improved access rights to product
	7	Exploitation of new forest areas
	8	Forest clearing that increases supply of product (e.g. fuelwood)
	9	Natural reasons (e.g. adequate rainfall)
	10	Co-management
	96	Other (specify)

9.5. MEASURING PROGRESS TOWARDS SFM

Community benefits from forest and tree related land use and other management programmes

9.5.1. Community participants in tree and forest related programme

Record community participation in tree and forest related activities [comm_participation]

When collected:	All	
Field Width:	1 digit	
Tolerance:	No errors	
Values:	Code	Description
	0	No, go to the question no. 9.5.9
	1	Yes, go to the question no. 9.5.2
	2	Don't know, go to the question no. 9.5.9

9.5.2. Programmes of the community participation

Record the programme activities that community people participated in the five years. Multiple responses are possible
[comm_programme]

When collected:	comm_participation=1	
Field Width:	1 digit	
Tolerance:	No errors	
Values:	Code	Description
	1	Ecotourism/landscape beauty
	2	Carbon sequestration/REDD+
	3	Watershed protection
	4	Biodiversity conservation
	5	Payment of use of forest (e.g from timber or mining companies)
	6	Forest fires and pest control practices
	7	Grazing management
	8	Permitting access to forests
	96	Other (please specify)

9.5.3. On-going of the programme

Record whether the programme are still continuing or nor.
[programme_going]

When collected:	All	
Field Width:	1 digit	
Tolerance:	No errors	
Values:	Code	Description
	0	No
	1	Yes

9.5.4. Community benefits from the programme
Record the benefits received for participation the tree and forest management programme. Choose one form the discussion
[comm_benefits]

When collected:	All	
Field Width:	1 digit	
Tolerance:	No errors	
Values:	Code	Description
	0	No
	1	Yes, cash payments to some households
	2	Yes, other benefits to some households
	3	Yes, cash payment to the community as whole
	4	Yes, other benefit to the community as whole (for example, a community development project, school classroom, health clinic or other service
	5	Yes, both to households and community
	96	Other (please specify)

9.5.5. Implementing agency of the programmes

Record implementing agency of the programme. Multiple responses are possible
[agency_implementer]

When collected:	All	
Field Width:	1 digit	
Tolerance:	No errors	
Values:	Code	Description
	1	Government/public agency
	2	International funding agency
	3	NGO
	96	Other (please specify----------------)

9.5.6. Number of month of the programme

Record number of months of the program is continued

[months_programme]

When collected:	All
Field Width:	1 digit
Tolerance:	No errors
Values:	1-60

9.5.7. Successful of the programe

Record the type of successful of the program
[success_program]

When collected:	All	
Field Width:	1 digit	
Tolerance:	No errors	
Values:	Code	Description
	1	Very successful
	2	Quite successful
	3	More or less successful
	4	Quite unsuccessful
	5	Not al all successful

9.5.8. Reason for failure of the progrmme

Reason for failure of the progrmme
[failure_progrm]

When collected:	All
Field Width:	100 digits
Tolerance:	No errors
Values:	Text

Forest management by the community people

9.5.9. Forests that is conserved and protected
Record whether forest area is specially conserved r protected by the community people
[forest_conserved]

When collected:	All	
Field Width:	1 digit	
Tolerance:	No errors	
Values:	Code	Description
	0	No, community is not specifically protecting any area
	1	Yes, for spiritual, ceremonial or graveyard purposes
	2	Yes, for collection of traditional medicine or other specific products collection
	3	Yes, for environmental or production sustainability reasons
	96	Yes, for other reasons, please specify--------
	99	Not known

9.5.10. Forests area that is conserved and protected

Record the area of the conserved or protected forests. Record the area in acre.
[area_comm]

When collected:	All
Field Width:	3 digits
Tolerance:	No errors
Values:	001-500

9.5.11. Years of forest management

Record years of forest management by the community people.
[years_management]

When collected:	All
Field Width:	3 digits
Tolerance:	No errors
Values:	001-100

9.5.12. Customary rules for tree and forest use
Record whether community has customary rules or not. Choose one from the discussion
[customary_rules]

When collected:	All	
Field Width:	1 digit	
Tolerance:	No errors	
Values:	Code	Description
	0	None
	1	Yes, clear rules exist
	2	Yes, but vague/unclear
	99	Don't know

9.5.13. Most serious problems for forest management

Record the three most serious probles for tree and forest management for the next 5 years
[problems_forest]

When collected:	All
Field Width:	100 digits
Tolerance:	No errors
Values:	Text

9.5.13.1. Problems solving

Record the three most important points how to solve the problems
[solve_forest]

When collected:	All
Field Width:	100 digits
Tolerance:	No errors
Values:	Text

9.5.14. Opportunities for forest management

Record the three most opportunites for tree and forest management in the next 5 years
[opportunities_forest]

When collected:	All
Field Width:	100 digits
Tolerance:	No errors
Values:	Text

9.5.14.1. Needs to be done

Record the three most important works to be done for tee and forest management in the next 5 years
[needs_forest]

When collected:	All
Field Width:	100 digits
Tolerance:	No errors
Values:	Text

9.5.14.2. Involvement for forest management

Record the most important institutions/persons for tree and forest management for the next 5 years
[involvement_forest]

When collected:	All
Field Width:	100 digits
Tolerance:	No errors
Values:	Text

Illegal activities related to trees and forests

9.5.15. Presence of illegal activities

Record presence of illegal activities in the union.

[illegal_presence]

When collected:	All	
Field Width:	1 digit	
Tolerance:	No errors	
Values:	Code	Description
	0	No, (then please continue from question 9.5.20)
	1	Yes, (then please continue from question 9.5.16-9.5.19)

9.5.16. Type of illegal activities
Record the type of illegal activities mentioned during the Focus Group Discussion. Multiple answers are possible.
[Illegal_activity]

When collected:	All	
Field Width:	1 digit	
Tolerance:	No errors	
Values:	Code	Description
	1	Illegal logging
	2	Poaching
	3	Intentional fire
	4	Illegal wildlife trading
	5	Harvest of fuelwood and other products beyond sustainable levels
	6	Legal conversion of forest land into other uses
	7	Encroachment
	8	Illegal extraction of sand and stone
	96	Other (please specify--------------)

9.5.17. Severity level of illegal activities

Record severity level of each illegal activity in the union. The question is linked with the previous question no.9.5.16

[severity_illegal]

When collected:	All	
Field Width:	1 digit	
Tolerance:	No errors	
Values:	Code	Description
	1	Very high
	2	High
	3	Moderate
	4	Low
	5	Very low

9.5.18. Frequency of illegal activity
Record the frequency of illegal activity in line with question 9.5.10.
[frequency_illegal]

When collected:	All	
Field Width:	1 digit	
Tolerance:	No errors	
Values:	Code	Description
	1	1 time
	2	2 times
	3	3 times
	4	4 times
	5	>4 times

9.5.19. Responsible for illegal activity

Record the responsible for illegal activity in line with question 9.5.10. Multiple answers are possible.

[responsible_illegal]

When collected:	All	
Field Width:	1 digit	
Tolerance:	No errors	
Values:	Code	Description
	1	*Local people for subsistence use*
	2	*Local people for cash*
	3	*Outside people for subsistence use*
	4	*Outside people for cash*
	5	*Private companies*
	96	*Others (please specify)*

Enforcement of laws related to trees and forests

9.5.20. Enforcement of laws

Record whether there is any enforcement of laws related to tree and forest laws.
[enforcement_laws]

When collected:	All	
Field Width:	1 digit	
Tolerance:	No errors	
Values:	Code	Description
	0	No, then please ask question 9.6.28)
	1	Yes, (then please continue to ask question 9.5.21)

9.5.21. Enforcer of the formal rules of forest MIP use

Record the enforcer of the formal rules forest use both cash and subsistence products. Choose one option.
[rule_enforce_infor]

When collected:	All	
Field Width:	1 digit	
Tolerance:	No errors	
Values:	Code	Description
	1	*Community head*
	2	*Community forest associations/customary institutions*
	3	*Forest officer (government forest department*
	4	*Other government department/regulation (name)*
	5	*Private land owners*
	6	*Private company (please specify name)*
	96	*Other (please specify)*

9.5.22. Penalties on violating the formal rules

Record whether there are any penalties for the violation of formal forest rues.
[penalty_mip]

When collected:	All	
Field Width:	1 digit	
Tolerance:	No errors	
Values:	Code	Description
	0	No, then please ask question 9.5.25)
	1	Yes, (then please ask question 9.5.23)

9.5.23. Type of formal penalty

Record the type of formal penalty in the union. Multiple responses are possible
[penalty_formal]

When collected:	All	
Field Width:	1 digit	
Tolerance:	No errors	
Values:	Code	Description
	1	Fine
	2	Seizure of collected products
	3	Warning
	4	Temporary exclusion from resource use
	5	Permanent exclusion from resource use
	6	Court Jail
	96	Other (specify)

9.6.24. Enforcer of informal rules
Record who enforces the informal rules in your area. Choose one from the discussion
[rule_informal]

When collected:	All	
Field Width:	1 digit	
Tolerance:	No errors	
Values:	Code	Description
	1	*Community head*
	2	*Community forest associations/customary institutions*
	3	*Forest officer (government forest department*
	4	*Other government department/regulation (name)*
	5	*Private land owners*
	6	*Private company (please specify name)*
	96	*Other (please specify)*

9.5.25. Penalties on violating the informal rules

Record whether there are any penalties of violating the informal rules in the union both cash and subsistence tree and forest products

[penalty_informal]

When collected:	All	
Field Width:	1 digit	
Tolerance:	No errors	
Values:	Code	Description
	0	No, go to the question no. 9.5.27
	1	Yes, go to the question no 9.5.26

9.5.26. Type of informal penalty

Record the type of informal penalty in the union. Multiple response is possible

[type_inform_penal]

When collected:	All	
Field Width:	1 digit	
Tolerance:	No errors	
Values:	Code	Description
	1	Fine
	2	Seizure of collected products
	3	Warning
	4	Temporary exclusion from resource use
	5	Permanent exclusion from resource use
	6	Court Jail
	96	Other (specify)

9.5.27. Total penalty

Record the total penalty due to violation of tree and forest rules and conflicts in the union in the last 12 months.
[number_penalty]

When collected:	All
Field Width:	2 digits
Tolerance:	No errors
Values:	01 to 50

Concept of climate change

9.5.28. Observe climate change

Please record the main sign of climate change that you observed in your union.
[comm_climate]

When collected:	All
Field Width:	500 digits
Tolerance:	No errors
Values:	text

9.5.29. Negative effect of climate change

Please record the negative effects of climate change that you observed in your union.
[negative_climate]

When collected:	All
Field Width:	2 digits
Tolerance:	No errors
Values:	01 to 50

9.5.30. Step to combat of climate change

Please record whether people take any steps or strategy to protect against climate changes.
[protect_climate]

When collected:	All	
Field Width:	1 digit	
Tolerance:	No errors	
Values:	Code	Description
	0	No, then please ask question 9.5.31
	1	Yes, then please ask question 9.5.32

9.5.31. Reasons for not taking any action

Please record the reasons why community did not take any steps or strategy to protect against climate changes.
[reasons_climate]

When collected:	All
Field Width:	2 digits
Tolerance:	No errors
Values:	01 to 50

9.5.32. Taking any action

Please record the actions taken by the community people to protect against climate changes.
[action_climate]

When collected:	All
Field Width:	2 digits
Tolerance:	No errors
Values:	01 to 50

REDD+ Safeguards

9.5.33. Community policy consultation

Record whether the community been consulted during the making process of any policies related to trees and forests in past five years.
[comm_consult]

When collected:	All	
Field Width:	1 digit	
Tolerance:	No errors	
Values:	Code	Description
	0	No, then please ask question 9.5.35
	1	Yes, then please ask question 9.5.34

9.5.34. Frequency of community consultation

Records frequency of community consultation in regard to tree and forest policies
[frequency_comm]

When collected:	comm_consult=1	
Field Width:	1 digit	
Tolerance:	No errors	
Values:	Code	Description
	1	1 time
	2	2 times
	3	3 times
	4	4 times
	5	>4times

9.5.35. Community seen draft policy

Record whether community seen policy documents which were consulted
[comm_policy]

When collected:	All	
Field Width:	1 digit	
Tolerance:	No errors	
Values:	Code	Description
	0	No, then please ask question 9.5.37
	1	Yes, then please ask question 9.5.36

9.5.36. Community concern addressed

Record whether community concerned addressed in the policy documents
[policy_addressed]

When collected:	All	
Field Width:	1 digit	
Tolerance:	No errors	
Values:	Code	Description
	0	No
	1	Yes
	99	Don't know

9.5.37. Declaration of forest land

Record forest area declared by the government in the past 5 years

[forest_declared]

When collected:	All	
Field Width:	1 digit	
Tolerance:	No errors	
Values:	Code	Description
	0	No, then please ask Question 9.5.39
	1	Yes, then please ask Question 9.5.38

9.5.38. Restriction access to forest

Record whether any restriction for accessing tree and forest resources

[restriction_access]

When collected:	All	
Field Width:	1 digit	
Tolerance:	No errors	
Values:	Code	Description
	0	No
	1	Yes

9.5.39. Community consultation before declaration

Record community awareness about forest declared as protected land
[comm_declared]

When collected:	All	
Field Width:	1 digit	
Tolerance:	No errors	
Values:	Code	Description
	0	No
	1	Yes

9.5.40. Forest land converted to plantation

Record the answer whether forest and other land converted to plantation.
[forest_plantation]

When collected:	All	
Field Width:	1 digit	
Tolerance:	No errors	
Values:	Code	Description
	0	No
	1	Yes, then please ask question 9.5.41

9.5.41. Community consultation before establishing plantation

Record whether community consultation before establishment of plantation
[consult_plantation]

When collected:	All	
Field Width:	1 digit	
Tolerance:	No errors	
Values:	Code	Description
	0	No
	1	Yes

Community survey location

9.5.42. Picture taken

Please record whether picture taken or not. Please take a photo of the place where the consultation took place. Keep in mind to take permission before taking any photographs [picture_comm]

When collected:	All	
Field Width:	1 digit	
Tolerance:	No errors	
Values:	Code	Description
	0	No
	1	Yes

9.5.43. End time of discussion

[end_discusion]
Please record end time of the discussion. This information is automatically taken by OpenForis. If tablet is not operational, please write down end time at the paper based form.

When collected:	All
Field Width:	4 digits
Tolerance:	No errors
Values:	HH:MM

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ANNEXES
Annex 1: Definitions and concepts

Afforestation	Establishment of forest through planting and/or deliberate seeding on land that, until then, was not classified as forest	
Agroforestry	A collective name for land use systems and technologies where woody perennials (trees, shrubs, palms, bamboos) are deliberately used on the same land management units as agricultural crops and/or animals, in some form of spatial arrangement or temporal sequence	Adapted from Nair (1963); Lundgren and Raintree (1982)
Biological diversity	The variability among living organisms from all sources including, inter alia, terrestrial, marine and other aquatic ecosystems and the ecological complexes of which they are part; this includes diversity within species, among species and of ecosystem	IUCN (2010)
Canopy cover	The percentage of the ground covered by a vertical projection of the outermost perimeter of the natural spread of the foliage of plants. Cannot exceed 100 percent	
Carbon sequestration	The removal and storage of carbon from the atmosphere in carbon sinks (such as oceans, forests or soils) through physical or biological processes, such as photosynthesis.	GreenFacts
Cash products	Products intended for sale to generate cash income for the household	(R. K. e. a. Bakkegaard, 2016)
Communal land tenure	A right of commons may exist within a community where each member has a right to use independently the holdings of the community. For example, members of a community may have the right to graze cattle on a common pasture	
Conflicts	Existence of conflicts (disagreement) between different users of the product and services	
Contribution of forestry to Gross Domestic Product (GDP)	Gross value added form forestry	
Coping strategy	Ex-post response strategies employed by households in the wake of shocks in order to smooth consumption	Dercon (2002)
Crop production	Livelihood and income generation provided by cropping activities	

Customary	The household is part of a collective, a group of co-owners, a community who own the land, hold exclusive rights and share duties	
Customary or common rights	Rights to harvest/use the product/service based on tradition or habit, to satisfy local people's needs or a specific group. Might be regulated through permits and licenses	
Deforestation	The conversion of forest to other land use or the permanent reduction of the tree canopy cover below the minimum 10 percent threshold	
Demand	Desire for certain good or service supported by the capacity to purchase it or The amount of particular economic good or service that a consumer or group of consumers will want to purchase at a given price.	
Disturbance	Damaged caused by any factor (biotic or abiotic) that adversely affects the vigour and productivity of the forest and which is not a direct result of human activities	
Disturbances by other abiotic agents	Disturbance caused by abiotic factors such as air pollution, snow, storms, draught etc	
Disturbances by other biotic agents	Disturbance caused by biotic agents other than insets or diseases such as wildlife browsing, grazing, physical damage by animals etc.	
Ecosystem services, cultural or spiritual values	Forest area designed or managed for selected ecosystem services or cultural or spiritual values	
Ecotourism	Responsible travel to natural areas that conserves the environment, sustains the well-being of the local people, and involves interpretation and education	
Employment in Forestry	Includes all persons in paid employment or self-employment. Paid employment refers to persons who during a specified reference period performed some work for wage or salary in cash or in kind. Self-employment refers to persons who during a specified reference period performed some work for profit or family gain in cash or in kind (employers, own account workers, members of producers' cooperatives, contributing family workers	
Employment in forestry and logging	Employment in activities related to production of goods derived from forests.	
End use	The ultimate specific use to which a manufactured product (such as paper) is put or restricted. It may be domestic, commercial or both	

Fallow land	Idle crop land which is part of an agricultural (cropping or pastoral) rotation system, but which is temporarily not being cultivated. To qualify as fallow the rotation period should be below 15 years	
Family member	A family member is a person who makes up part of a family. A family member can be a head of household, spouse, unmarried sons and daughters, married sons who are direct dependents, parents, unmarried sisters, divorced or separated daughters or sisters. Servants, labourers and lodgers who have no other usual place of residence but live and eat together within the household with or without payments are not considered as family members.	
Field team	The field team is in charge of the paper and tablet survey through questionnaire.	
Fishing	Livelihood and income generation provided by fishing	
Forest	Lands of more than 0.5 ha., with a tree canopy cover of more 10 percent, where the trees should be able to reach a minimum height of 5 m in situ, and which are not primarily under agricultural or urban land use	FAO (2006, p. 169)
Forest degradation	The reduction of the capacity of a forest to provide goods and services	
Forest ownership	Generally, refers to the legal right to freely and exclusively use, control, transfer or otherwise benefit from a forest. Ownership can be acquired through transfer such as sales, donations and inheritance	
Forest products	Goods collected or harvested from forests including old growth natural forest, secondary and regenerating natural forest, plantation forest and include timber and a wide range of NTFPs, including tree-based (e.g. some fruits), various plants (tubers), and fauna (bush pig). Also include tree-based products from non-market systems including trees on farms, woodlots and agroforestry	(R. K. e. a. Bakkegaard, 2016)
Forest revenue	All government revenue collected from the domestic production and trade of forest products and services. For this purpose, revenue include: Goods, roundwood, sawnwood, biomass, wood based products, pulp an paper and non-wood forest products	
Forestry	Livelihood and income generation provided by the forest and related activities, including processing and marketing of forest products	

Gathering	Livelihood and income generation provided by collecting fruits, plants, nuts, fibre from a wild area	
Handicraft	Livelihood and income generation provided by handicraft	
Head of Household	Head of the household means a member of the household who is the decision-maker regarding the different activities of the household. This household is also being run under his/her command. Generally, the eldest male or female earner of the household or the main decision-maker is considered to be the head of household	
Homestead area	This includes land under household residence with all its structures, entrance and exit passage. The land adjacent to residence and used for temporary or perennial crops, ponds and tanks and compact plantation is excluded from homestead area	
Household	A household means a group of persons normally living together and with common arrangement of cooking) with their dependents, relatives, servants, and other members. A household may be a one-person household or may have more persons.	
Hunting	Livelihood and income generation provided by hunting	
Income	The return to the labour and capital owned, used in production and other value-Added activities (self-employment or business), for own use or sold in a market (e.g. wage labour). Transfers are also included in the income definition, e.g in the form of remittances or pensions, as well as resource rent, e.g. from oil, minerals or payments for environmental services	(R. K. e. a. Bakkegaard, 2016)
Individual ownership	Land owned by the household	
Industrial roundwood removals	The wood removed (volume of roundwood over bark) for production of goods and services other than energy production (woodfuel)	
Industry	Work in the industrial sector	
Informal rules	The usually unwritten social norms, customs or traditions that shape though and behaviour	

Institution	The set of rules actually used by individuals or a set of individuals and potentially affecting others	
Land, cultivable	Land under temporary agricultural crop such as paddy, jute, robi crop, Kharif crop, etc is termed as cultivable land. It also includes fallow land	
Land, Lease in	Land taken from other household or institution for the purpose of habitation, farming fishery etc. in lieu of fixed rent or on share cropping basis or on mortgage or in any other term is considered as land leased-in	
Legislation awareness	Awareness of the legislation regarding product and service related to the harvester/user.	
Legislation compliance	Compliance to legislation for the product/service (any user).	
Livestock / Herding	Livelihood and income generation provided by livestock, pasture, herding	
Mahalla	Mahalla is the smallest informal unit in the urban area and its equivalent unit in the rural area is a village. Each Mahalla is a part of ward, which is a part of a Paurashava or City Corporation in the urban area	
Management rights by communities	Forest management rights and responsibilities are transferred from the public administration to local communities (including indigenous a tribal communities) trough long-term leases or management practices	
Management rights by individuals/households	Forest management rights and responsibilities are transferred from the public administration to individuals or households through long-term leases or management agreements.	
Management rights by private companies	Forest management rights and responsibilities are transferred from the public administration to corporation, other business entities, private co-operative, private non-profit institutions and associations, etc. through long-term leases or management agreements.	
Management rights by public administration	The public administration (or institutions or corporations owned by the public administration) retains management rights and responsibilities within the limits specified by legislation	
Mauza	Mauza is the smallest revenue collection unit in the country. Each Mauza has distinct demarcated map called Cadastral Survey (CS map) and Jurisdiction list Number (J.L No). A Mauza may consist of one or more villages. It is a popular unit in the village and is called revenue village	

Multiple use	Forest area designated primarily for more than on purpose and where none of these alone is considered as the predominate designated function	
Natural forest (or old growth natural forest)	Forest that consists of indigenous (native) tree species. It is managed only to a very limited degree, i.e. practising "tolerant forest management in which the native vegetation is largely conserved or reconstructed through successional processes"	
Non-forest tree-based cultivated system	Areas that do not classify as forest or agriculture but are characterized by planted/cultivated perennial wood vegetation, e.g. woodlots, trees on farms, agroforestry	
Non-wood forest product (NWFP)	Goods derived from forest that are tangible and physical objects of biological origin other than wood (generally includes non-wood plant and animal products collected from areas defined as forests or plantation). Generally, excludes products collected in tree stand in agricultural production systems such as fruit tree plantation, oil palm plantation and agroforestry system when crops are grown under tree cover. Specifically excludes woody raw materials and products such as chips, charcoal, fuelwood and wood used for tools, household's equipment and carvings, grazing in the forests	
Occupation	Occupation is generally the acceptable means of income to fulfil the financial requirement. It can be defined as a means associated with the activities from which the individual earns livelihood. Occupation may be a major or a minor, according to the greater or smaller share in income	
Open access	Specific rights are not assigned to anyone and no-one can be excluded. This typically includes marine tenure where access to the high seas is generally open to anyone; it may include rangeland, forests, etc., where there may be free access to the resources for all. (An important difference between open access and communal system is that under a communal system of non-members of the community are excluded from using the common areas	FAO (2002, p. 8)
Others private ownership	When the household has an agreement with the owner to use the land	
Owned land	Owned land means the land owned by holder including members of his/her family having a title to the land with right to determine nature and extent of its use and to transfer the same	
Ownership	Legal title that couple with exclusive legal right to possession	

Payment for environmental services	A voluntary transaction for all a well-defined ecological service, with a least one buyer, at least one provider, and based on the condition that the buyers only pay if the providers	
Plantation forest	Forest stands established by planting or/and seeding in the process of afforestation or reforestation. They are either of introduced species (all planted stand), or intensively managed stands of indigenous species which meet all the following criteria: one or maximum two species when established, even age class, regular spacing	
Planted forest	Forest predominantly composed of trees established through planting and/or deliberate seeding. Explanatory notes: 1. In this context, predominantly means that the planted/seeded trees are expected to constitute more than 50 percent of the growing stock at maturity. 2. Includes coppice from trees that were originally planted or seeded. 3. Includes rubber wood and non-food tree plantations. 4. Excludes self-sown trees of introduced species.	
Private land tenure	The assignment of rights to a private party who may be an individual, a married couple, a group of people or a corporate body such as a commercial entity or non-profit organization. For example, within a community, individual families may have exclusive rights to residential parcels, agricultural parcels and certain trees. Other members of the community can be excluded from using these resources without the consent of those who hold the rights	
Private Ownership	Forest owned by individuals, families, communities, private co-operative, corporation and other business entities, private religious and educational institutions, pension and investment funds, NGOs, nature conservation associations and other private institutions	
Private Ownership by local, tribal and individual and indigenous communities	Forest owned by a group of individuals belonging to the same community residing within or in the vicinity of a forest area or forest owned by communities of indigenous or tribal people. The community members are co-owners that share exclusive rights and duties, and benefits contribute to the community development	
Production	Forest area designed primarily for production of wood, fiber, bio-energy and/or non-wood forest products. It includes areas for subsistence collection of wood and/or non-wood forest products	

Protected areas	Areas especially dedicated to the protection and maintenance of biological diversity and of natural and associated cultural resources and managed through legal or other effective means	
Protection of soil and water	Forest are designed primarily for protection of soil and water. Harvesting of wood and non-wood forest products may (sometimes) be allowed, but with specific restrictions aimed at maintaining the tree cover an dnot damaging the vegetation that protects the soil	
Public ownership	Forest owned by the State or administrative units of the Public Administration or by institutions or corporations owned by the public administration	
Public recreation	Forest area designed or managed for public recreation	
QA/QC team	Ensure that all resource inventory data are scientifically sound, of known quality, and are thoroughly documented. Measurement Quality Objectives (MQO) are established as standards to define data quality.	
Reforestation	Re-establishment of forest through planting and/or deliberate seeding on land classified as forest	
Rent	The household rents the land (lease)	
Rural area	The area outside those of City Corporations, Paurashava and Upazila Headquarters in the country constituted the rural area	
Services	Income generated from services (doctor, lawyer, teacher...)	
Shrub	Woody perennial plant, generally more than 0.5 meters and less than 5 meters in height at maturity and without a definite crown	
Social services	Forest are designed primarily for social services. It includes such as recreation, tourism, education, research and/or conservation of cultural/spiritual sites. It excludes area for subsistence collection of wood/non-wood forest products unless also designed for any of the services	
Subsistence products	Products intended to meet the basic consumption needs of the household	(R. K. e. a. Bakkegaard, 2016)

Supply	The total amount of a good or service available for purchase; along with demand, one of the two key determinants of price
Tourism	Income generated from tourism or activities related to recreation.
Trade	Livelihood and income generation provided by trade in goods or services
Tree	A woody perennial with a single main stem, or in the case of coppice with several stems, having a more or less definite crown
Urban area	There are three components of the urban area. The area within the jurisdiction of City Corporation, Paurashava and Upazila Headquarters are treated as urban area
User rights	Right to harvest/use of the products and services or the permission that are granted to a user
Value of NWFP removals	Value is defined as the market value at the site of collection or forest border.
Ward	Ward is part of a Paurashava or City Corporation. A ward is an urban unit and its equivalent unit in the rural area is a union
Wood fuel removals	The wood removed for energy production purposes, regardless whether for industrial, commercial or domestic use. It includes all wood collected or removed for energy purposes, Includes removals of fuelwood for household use

Annex 2: District codes

The district codes are in line with BBS district codes. When fill up the district code it is highly recommended to consistent with the BBS district codes. The district codes are below

SL#	ZILA_CODE	ZILA_NAME	DIV_CODE	DIV_NAME
1	4	Barguna_Zila	10	Barisal Division
2	6	Barisal_Zila	10	Barisal Division
3	9	Bhola_Zila	10	Barisal Division
4	42	Jhalokati_Zila	10	Barisal Division
5	78	Patuakhali_Zila	10	Barisal Division
6	79	Pirojpur_Zila	10	Barisal Division
7	3	Bandarban_Zila	20	Chittagong Division
8	12	Brahmanbaria_Zila	20	Chittagong Division
9	13	Chandpur_Zila	20	Chittagong Division
10	15	Chittagong_Zila	20	Chittagong Division
11	19	Comilla_Zila	20	Chittagong Division
12	22	Cox's Bazar_Zila	20	Chittagong Division
13	30	Feni_Zila	20	Chittagong Division
14	46	Khagrachhari_Zila	20	Chittagong Division
15	51	Lakshmipur_Zila	20	Chittagong Division
16	75	Noakhali_Zila	20	Chittagong Division
17	84	Rangamati_Zila	20	Chittagong Division
18	26	Dhaka_Zila	30	Dhaka Division
19	29	Faridpur_Zila	30	Dhaka Division
20	33	Gazipur_Zila	30	Dhaka Division
21	35	Gopalganj_Zila	30	Dhaka Division
22	39	Jamalpur_Zila	30	Dhaka Division
23	48	Kishoreganj_Zila	30	Dhaka Division
24	54	Madaripur_Zila	30	Dhaka Division
25	56	Manikganj_Zila	30	Dhaka Division
26	59	Munshiganj_Zila	30	Dhaka Division
27	61	Mymensingh_Zila	30	Dhaka Division
28	67	Narayanganj_Zila	30	Dhaka Division
29	68	Narsingdi_Zila	30	Dhaka Division
30	72	Netrokona_Zila	30	Dhaka Division
31	82	Rajbari_Zila	30	Dhaka Division
32	86	Shariatpur_Zila	30	Dhaka Division
33	89	Sherpur_Zila	30	Dhaka Division
34	93	Tangail_Zila	30	Dhaka Division
35	1	Bagerhat District	40	Khulna Division
36	18	Chuadanga District	40	Khulna Division

37	41	Jessore District	40	Khulna Division
38	44	Jhenaidah District	40	Khulna Division
39	47	Khulna District	40	Khulna Division
40	50	Kushtia District	40	Khulna Division
41	55	Magura District	40	Khulna Division
42	57	Meherpur District	40	Khulna Division
43	65	Narail District	40	Khulna Division
44	87	Satkhira District	40	Khulna Division
45	10	Bogra District	50	Rajshahi Division
46	70	Chapai Nawabganj District	50	Rajshahi Division
47	38	Joypurhat District	50	Rajshahi Division
48	64	Naogaon District	50	Rajshahi Division
49	69	Natore District	50	Rajshahi Division
50	76	Pabna District	50	Rajshahi Division
51	80	Rajshahi District	50	Rajshahi Division
52	88	Sirajganj District	50	Rajshahi Division
53	27	Dinajpur District	55	Rangpur Division
54	32	Gaibandha District	55	Rangpur Division
55	49	Kurigram District	55	Rangpur Division
56	52	Lalmonirhat District	55	Rangpur Division
57	73	Nilphamari District	55	Rangpur Division
58	85	Rangpur	55	Rangpur Division
59	77	Panchagarh District	55	Rangpur Division
60	94	Thakurgaon District	55	Rangpur Division
61	36	Habiganj District	60	Sylhet Division
62	58	Maulvibazar District	60	Sylhet Division
63	90	Sunamganj District	60	Sylhet Division
64	91	Sylhet District	60	Sylhet Division

Annex 3: List of decentralized offices

Code	Zone	Division	Range Name	Type	Name
1	Hill	Chittagong North Forest Division	Hathazari	Range Office	Hathazari Range Office
2	Hill	Chittagong North Forest Division	Olinagar	Range Office	Olinagar Range Office
3	Hill	Chittagong North Forest Division	Mirsarai	Range Office	Mirsarai Range Office
4	Hill	Chittagong North Forest Division	Sitakunda	Range Office	Sitakunda Range Office
5	Hill	Chittagong North Forest Division	Hazarikhil	Range Office	Hazarikhil Range Office
6	Hill	Chittagong North Forest Division	Karerhat	Range Office	Karerhat Range Office
7	Hill	Chittagong North Forest Division	Narayanhat	Range Office	Narayanhat Range Office
8	Hill	Chittagong North Forest Division	Narayanhat	Range Office	Narayanhat Range Office
9	Hill	Chittagong North Forest Division	Mirsarai	Range Office	Mirsarai Range Office
10	Hill	Chittagong North Forest Division	Bariyadhala	Range Office	Bariyadhala Range Office
11	Hill	Chittagong North Forest Division	Kumira	Range Office	Kumira Range Office
12	Hill	Chittagong North Forest Division	Chittagong North Town	Range Office	Chittagong North Town Range Office
13	Hill	Chittagong North Forest Division	Icchamoti	Range Office	Icchamoti Range Office
14	Hill	Chittagong North Forest Division	Kalurghat	Range Office	Kalurghat Range Office
15	Hill	Chittagong South Forest Division	Patiya	Range Office	Patiya Range Office
16	Hill	Chittagong South Forest Division	Barobakia	Range Office	Barobakia Range Office
17	Hill	Chittagong South Forest Division	Padua	Range Office	Padua Range Office
18	Hill	Chittagong South Forest Division	Dohajari	Range Office	Dohajari Range Office
19	Hill	Chittagong South Forest Division	Chunati	Range Office (CTG South)	Chunati Range Office (CTG South)
20	Hill	Chittagong South Forest Division	Chunati	Range Office (Wildlife)	Chunati Range Office (Wildlife)
21	Hill	Chittagong WMNC Division	Bashkhali Eco-Park	Range Office	Bashkhali Eco-Park Range Office

Code	Zone	Division	Range Name	Type	Name
22	Hill	Chittagong South Forest Division	Jaldi	Range Office	Jaldi Range Office
23	Hill	Chittagong South Forest Division	Bashkhali	Range Office	Bashkhali Range Office
24	Hill	Chittagong South Forest Division	Chhanua	Range Office	Chhanua Range Office
25	Hill	Chittagong South Forest Division	Khurshia	Range Office	Khurshia Range Office
26	Hill	Chittagong South Forest Division	Kalipur	Range Office	Kalipur Range Office
27	Hill	Lama Forest Division	Lama Division	Division Office	Lama Forest Division Office
28	Hill	Lama Forest Division	Matamuhari	Range Office	Matamuhari Range Office
29	Hill	Lama Forest Division	Tain	Range Office	Tain Range Office
30	Hill	Lama Forest Division	Lama Sadar	Range Office	Lama Sadar Range Office
31	Hill	Chittagong Hill Tracts	Alikhiang	Range Office	Alikhiang Range Office
32	Hill	Chittagong Hill Tracts	Changrachari	Range Office	Changrachari Range Office
33	Hill	Chittagong Hill Tracts	Farua	Range Office	Farua Range Office
34	Hill	Rangamati (Jhum Control)	Tinkonia	Range Office	Tinkonia Range Office
35	Hill	Chittagong Hill Tracts (North)	Pablakhali	Range Office	Pablakhali Range Office
36	Hill	Chittagong Hill Tracts (North)	Sisok	Range Office	Sisak Range Office
37	Hill	Chittagong Hill Tracts (North)	Baghaihat	Range Office	Baghaihat Range Office
38	Hill	Chittagong Hill Tracts (North)	Masalong	Range Office	Masalong Range Office
39	Hill	Chittagong Hill Tracts (North)	Naraichari	Range Office	Naraichari Range Office
40	Hill	Rangamati (Jhum Control)	Hajachari	Range Office	Hajachari Range Office
41	Hill	Rangamati (Jhum Control)	Merung	Range Office	Merung Range Office
42	Hill	Chittagong Hill Tract North	Kaptai	Range Office	Kaptai Range Office
43	Coastal	Patuakhali Coastal Division	Patharghata	Range Office	Patharghata Range Office
44	Coastal	Patuakhali Coastal Division	Mohipur	Range Office	Mohipur Range Office
45	Coastal	Patuakhali Coastal Division	Patuakhali	Range Office	Patuakhali Range Office
46	Coastal	Patuakhali Coastal Division	Char Montaz	Range Office	Char Montaz Range Office

Code	Zone	Division	Range Name	Type	Name
47	Coastal	Patuakhali Coastal Division	Galachipa	Range Office	Galachipa Range Office
48	Coastal	Patuakhali Coastal Division	Dashmina	Range Office	Dashmina Range Office
49	Coastal	Noakhali Coastal Division	Nalcchira	Range Office	Nalcchira Range Office
50	Coastal	Noakhali Coastal Division	Nalchira	Range Office	Nalchira Range Office
51	Coastal	Noakhali Coastal Division	Sagoria	Range Office	Sagoria Range Office
52	Coastal	Noakhali Coastal Division	Habibiya	Range Office	Habibiya Range Office
53	Coastal	Noakhali Coastal Division	Chor bata	Range Office	Chor bata Range Office
54	Coastal	Noakhali Coastal Division	Noakhali Sadar	DFO Office	Noakhali DFO Office
55	Coastal	Chittagong Coastal Division	Urirchar	Range Office	Urirchar Range Office
56	Coastal	Noakhali Coastal Division	Jahajmara	Range Office	Jahajmara Range Office
57	Coastal	Chittagong Coastal Division	Sandwip	Range Office	Sandwip Range Office
58	Coastal	Chittagong Coastal Division	Mirsarai	Range Office	Mirsarai Range Office
59	Coastal	Chittagong Coastal Division	Sitakunda	Range Office	Sitakunda Range Office
60	Coastal	Chittagong Coastal Division	Bashkhali	Range Office	Bashkhali Range Office
61	Coastal	Chittagong Coastal Division	Chhanua	Range Office	Chhanua Range Office
62	Hill	Cox'sbazar South Division	Inani	Range Office	Inani Range Office
63	Hill	Cox'sbazar South Division	Shilkhali	Range Office	Shilkhali Range Office
64	Hill	Cox'sbazar South Division	Teknaf	Range Office	Teknaf Range Office
65	Hill	Cox'sbazar South Division	Whykheong	Range Office	Whykheong Range Office
66	Hill	Cox'sbazar South Division	Ukhia	Range Office	Ukhia Range Office
67	Hill	Cox'sbazar North Division	P.M. Khali	Range Office	P.M. Khali Range Office
68	Hill	Cox'sbazar South Division	Panerchara	Range Office	Panerchara Range Office
69	Hill	Cox'sbazar South Division	Dhoapalong	Range Office	Dhoapalong Range Office
70	Hill	Cox'sbazar South Division	Rajarkul	Range Office	Rajarkul Range Office
71	Hill	Cox'sbazar North Division	Baghkhali	Range Office	Baghkhali Range Office

Code	Zone	Division	Range Name	Type	Name
72	Hill	Cox'sbazar North Division	Joarianala	Range Office	Joarianala Range Office
73	Hill	Cox'sbazar North Division	Meherghona	Range Office	Meherghona Range Office
74	Hill	Cox'sbazar North Division	Fulchari	Range Office	Fulchari Range Office
75	Hill	Cox'sbazar North Division	Eidgaon	Range Office	Eidgaon Range Office
76	Hill	Cox'sbazar North Division	Fashiakhali	Range Office	Fashiakhali Range Office
77	Hill	Chittagong North Forest Division	Chittagong North Town	Range Office	Chittagong North Town Range Office
78	Hill	Chittagong North Division	Kalurghat	Range Office	Kalurghat Range Office
79	Hill	Chittagong South Forest Division	Barobakia	Range Office	Barobakia Range Office
80	Hill	Chittagomg Wildlife Division	Bashkhali Eco Park	Range Office	Bashkhali Eco Park Range Office
81	Hill	Chittagong South Forest Division	Jaldi	Range Office	Jaldi Range Office
82	Hill	Chittagong South Forest Division	Kalipur	Range Office	Kalipur Range Office
83	Hill	Chittagong North Forest Division	Mirsarai	Range Office	Mirsarai Range Office
84	Hill	Chittagong North Forest Division	Bariyadhala	Range Office	Bariyadhala Range Office
85	Hill	Chittagong North Forest Division	Kumira	Range Office	Kumira Range Office
86	Coastal	Bhola Coastal Division	Bhola	Range Office	Bhola Range Office
87	Coastal	Bhola Coastal Division	Char Fashion	Range Office	Char Fashion Range Office
88	Coastal	Bhola Coastal Division	Lalmohon	Range Office	Lalmohon Range Office
89	Coastal	Bhola Coastal Division	Daulat Khan	Range Office	Daulat Khan Range Office
90	Coastal	Bhola Coastal Division	Dhal Char	Range Office	Dhal CharRange Office
91	Coastal	Bhola Coastal Division	Char Kukri Mukri	Range Office	Char Kukri Mukri Range Office
92	Coastal	Bhola Coastal Division	Manpua	Range Office	Manpura Range Office
93	Hill	Cox's Bazar South Forest Div.	Inani	Range Office	Inani
94	Hill	Cox's Bazar South Forest Div.	Shilkhali	Range Office	Shilkhali
95	Hill	Cox's Bazar South Forest Div.	Teknaf	Range Office	Teknaf

Code	Zone	Division	Range Name	Type	Name
96	Hill	Cox's Bazar South Forest Div.	Whykheong	Range Office	Whykheong
97	Hill	Cox's Bazar South Forest Div.	Ukhia	Range Office	Ukhia
98	Hill	Cox's Bazar South Forest Div.	Panerchara	Range Office	Panerchara
96	Hill	Cox's Bazar South Forest Div.	Dhoapalong	Range Office	Dhoapalong
100	Hill	Cox's Bazar South Forest Div.	Rajarkul	Range Office	Rajarkul
101	Hill	Cox's Bazar North Forest Div.	P.M.Khali	Range Office	P.M.Khali
102	Hill	Cox's Bazar North Forest Div.	Bagkhali	Range Office	Bagkhali
103	Hill	Cox's Bazar North Forest Div.	Joarianala	Range Office	Joarianala
104	Hill	Cox's Bazar North Forest Div.	Meherghona	Range Office	Meherghona
105	Hill	Cox's Bazar North Forest Div.	Fulchari	Range Office	Fulchari
106	Hill	Lama Forest Division	Lama	DFO Lama	Lama DFO
107	Hill	Cox's Bazar North Forest Div.	Eidgarh	Range Office	Eidghar
108	Hill	Cox's Bazar North Forest Div.	Eidgaon	Range Office	Eidgaon
109	Hill	Cox's Bazar North Forest Div.	Fashiakhali	Range Office	Fashiakhali
110	Sal	Tangail Forest Division	Dokkhola	Range office	Dokkhola Range office
111	Sal	Tangail Forest Division	Aryankhola	Range office	Aryankhola Range office
112	Sal	Rangpur Forest Division	Rangpur	DFO Office	Rangpur DFO Office
113	Sal	Rangpur Forest Division	Mitha Pukur	Range Office	Mitha Pukur Range Office
114	Sal	Rajshahi Social Forest Division	Paikbanda	Range Office	Paikbanda Range Office
115	Sal	Mymensingh Forest Division	Rasulpur	Range office	Rasulpur Range office
116	Sal	Mymensingh Forest Division	Bhaluka	Range office	Bhaluka Range office
117	Sal	Mymensingh Forest Division	Modhu Tilla	Range Office	Modhu Tilla Range Office
118	Sal	Mymensingh Forest Division	Rangtia	Range Office	Rangtia Beat Office
119	Sal	Mymensingh Forest Division	Bali Juri	Range Office	Bali Juri Beat Office
120	Sal	Mymensingh Forest Division	Rangtia	Range Office	Rangtia Range Office

Code	Zone	Division	Range Name	Type	Name
121	Sal	Mymensingh Forest Division	Bali Juri	Range Office	Bali Juri Range Office
122	Sal	Dinajpur Forest Division	Charkai	Range Office	Charkai Range Office
123	Sal	Dhaka WMNC Division	Bhawal	Range office	Bhawal Range office
124	Sal	Dhaka WMNC Division	Bhurulia	Range office	Bhurulia Range office
125	Sal	Dhaka WMNC Division	National Park	Range office	National Park Range office
126	Sal	Dhaka WMNC Division	Bangabandhu Safari Park	Range office	Bangabandhu Safari Park Range office
127	Sal	Dhaka WMNC Division	Rajendrapur	Range office	Rajendrapur Range office
128	Sundarban	Sundarban East Forest Division	Chandpai	Range Office	Chandpai RO
129	Sundarban	Sundarban West Forest Division	Nalian	Range Office	Khulna RO, Nalian
130	Sundarban	Sundarban West Forest Division	Burigoalini	Range Office	Satkhira RO, Burigoal
131	Sundarban	Sundarban East Forest Division	Sarankhola	Range Office	Sarankhola RO
132	Hill	Sylhet Forest Division	Satchari	Range Office	Satchari Range Office
133	Hill	Sylhet Forest Division	Raghunandan	Range Office	Raghunandan Range Office
134	Hill	Sylhet Forest Division	Moulavibazar Wild Life Sanctuary	Division Office	Moulavibazar Wild Life Division Office
135	Hill	Sylhet Forest Division	Moulavibazar Wild Life (Sreemangal)	Range Office	Moulavibazar Wild Life (Sreemangal) Range Office
136	Hill	Sylhet Forest Division	Kalenga	Range Office	Kalenga Range Office
137	Hill	Sylhet Forest Division	Rajkandi	Range Office	Rajkandi Range Office
138	Hill	Sylhet Forest Division	Kulaura	Range Office	Kulaura Range Office
139	Hill	Sylhet Forest Division	Juri	Range Office	Juri Range Office
140	Hill	Sylhet Forest Division	Borolekha	Range Office	Borolekha Range Office
141	Swamp	Sylhet Forest Division	Sunamgonj	Range Office	Sunamgonj Range Office
142	Hill	Sylhet Forest Division	Sari	Range Office	Sari Range Office

Code	Zone	Division	Range Name	Type	Name
143	Hill	Cox's Bazar North Forest Div.	Cox'sbazar	Division Office	Cox's Bazar Forest Div.
144	Hill	Bandarban Pulpwood Division	Bandarban	Division Office	Bandarban Pulpwood Forest Division
145	Hill	Chittagong Hill Tracts	Chittagong	Division Office	Chittagong Hill Tracts
146	Hill	Khagrachari Forest Division	Khagrachari	Division Office	Khagrachari Forest Division
147	Sal	Dhaka Forest Division	Dhaka	Doivision Office	Dhaka Forest Division
148	Sundar ban	Sundarban East Forest Division	Bagerhat	Division Office	Sundarban East Forest Division
149	Sundar ban	Sundarban West Forest Division	Khulna	Division office	Sundarban West Forest Division
150	Coastal	Bhola Coastal Division	Bhola	Division Office	Bhola Coastal Division
151	Coastal	Patuakhali Coastal Division	Patuakhali	Division Office	Patuakhali Coastal Division
152	Coastal	Noakhali Coastal Division	Maijdee	Division Office	Noakhali Coastal Division
153	Non Forest	Rajshahi Social Forest Division	Rajshahi	Division Office	Rajshahi Social Forest Division
154	Non Forest	Rangpur Forest Division	Rangpur	Division Office	Rangpur Forest Division
155	Non Forest	Pabna Social Forest Division	Pabna	Division Office	Pabna Social Forest Division
156	Non Forest	Jessore Forest Division	Jessore	Division Office	Jessore Forest Division
157	Non Forest	Barisal Coastal Forest Division	Barisal	Doivision Office	Barisal Coastal Forest Division
158	Non Forest	Sylhet Forest Divison	Sylhet	Division Office	Sylhet Forest Divison
159	Non Forest	Comilla Social Forest Division	Comilla	Division office	Comilla Social Forest Division
160	Non Forest	Mymensingh Forest Division	Mymensingh	Division Office	Mymensingh Forest Division
161	Non Forest	Dhaka Social Forest Division	Dhaka	Division Office	Dhaka Social Forest Division
162	Non Forest	Faridpur Social Forest Division	Faridpur	Division Office	Faridpur Social Forest Division

Annex 4: Forest divisions

Code	Division
1	Dhaka WMNC
2	Chittagong WMNC
3	Sylhet WMNC
4	Khulna WMNC
5	National Botanical Garden, Mirpur, Dhaka
6	Botanical Garden and Ecopark, Chittagong
7	Management Plan , Dhaka
8	Management Plan , Chittagong
9	Management Plan , Khulna
10	Dhaka Social Forest
11	Comilla Social Forest
12	Feni Social Forest
13	Pabna Social Forest
14	Dinajpur Social Forest
15	Bogra Social Forest
16	Rajshahi Social Forest
17	Jessore Social Forest
18	Kushtia Social Forest
19	Bagerhat Social Forest
20	Faridpur Social Forest
21	Barisal Social Forest
22	Dhaka Forest
23	Tangail Forest
24	Mymensingh Forest
25	Sylhet Forest
26	Cox'sbazar North Forest

Code	Division
27	Cox'sbazar South Forest
28	Bandarban Forest
29	Lama Forest
30	Pulpwood Plantation Divisiion, Bandarban
31	CHT South Forest
32	Utilization Forest
33	CHT North Forest
34	USF Forest
35	Pulpwood Plantation , Kaptai
36	Khagrachari Forest
37	Jhum Control Forest , Rangamati
38	Bhola Coastal Forest
39	Patuakhali Coastal Forest
40	Noakhali Coastal Forest
41	Chittagong Coastal Forest
42	Sundarban East Forest
43	Sundarban West Forest

Annex 5: Forest ranges

Code	Range	Code	Range	Code	Range	Code	Range	Code	Range	Code	Range
51	Shalgaria SFNTC	101	Gopalganj SFNTC	151	Sgreebordi SFNTC	201	Fashiakhali	251	Game Sanctuary (Rangamati)	301	Char Montaz
52	Shujanagar SFNTC	102	Rajbari SFNTC	152	Karimganj SFNTC	202	Fulchari	252	Cox'sbazar SFNTC	302	Patharghata
53	Sirajganj SFNTC	103	Faridpur SFNTC	153	Juri	203	Eidgaon	253	Maheshkhali SFNTC	303	Amtali
54	Royganj SFNTC	104	Purba Gagabati SFNTC	154	Kulaura	204	Meherghona	254	Rangamati North HQ	304	Doshmina
55	Dinajpur HQ	105	Madaripur SFNTC	155	Borolekha	205	Joarinala	255	Karnaphully	305	Mohipur
56	Charkai	106	Shariatpur SFNTC	156	Rajkandi	206	Bakkhali	256	Subalong	306	Patuakhali SFNTC
57	Madhyapara	107	Kashipur SFNTC	157	Moulvivazar	207	PM Khali	257	Farua	307	Barguna SFNTC
58	Deviganj	108	Gaurnadi SFNTC	158	Sari	208	Chakaria Sundarban	258	Sharangchari	308	Ranagopaldi SFNTC
59	Ramsagar	109	Jhalokathi SFNTC	159	Sylhet HQ	209	Cox'sbazar (North) HQ	259	Alikhong	309	Charbata
60	Uttar Govindapur SFNTC	110	Pirojpur SFNTC	160	Raghunandan	210	Fashiakhali SFNTC	260	Firingibazar	310	Jahajmara
61	Kaharol SFNTC	111	Boyra SFNTC	161	Sunamganj	211	Teknaf	261	Rangamati HQ	311	Char Alauddin
62	Thakurgaon SFNTC	112	Muladi SFNTC	162	Sylhet Town	212	Shilkhali	262	Kutukchari	312	Habibia
63	Panchgarh SFNTC	113	Barisal HQ SFNTC	163	Shayestaganj	213	Cox'sbazar HQ	263	Thaingchama	313	Nalchira
64	Bogra Sadar SFNTC	114	Rajendrapur	164	Kalenag	214	Panerchara	264	Kangalchari	314	Sagoria
65	Sherpur SFNTC	115	Sreepur	165	Satchari	215	Khuniapalong	265	Mahalchari	315	Companiganj

Code	Range	Code	Range	Code	Range	Code	Range	Code	Range	Code	Range
66	Dupchachia SFNTC	116	Kachighata	166	Sunamganj SFNTC	216	Rajarkul	266	Khagrachari	316	Char Alexander
67	Joypurhat SFNTC	117	Kaliakoir	167	Sylhet SFNTC	217	Ukhia	267	Nursey	317	Bhabaniganj
68	Kalai SFNTC	118	Mouchak SFNTC	168	Kulaura SFNTC	218	Inani	268	Bhaibone	318	Noakhali SFNTC
69	Bogra HQ SFNTC	119	Tangail HQ	169	Moulvibazar SFNTC	219	Whykheong	269	Dhanuchari	319	Feni SFNTC
70	Poba SFNTC	120	Baheratali	170	Habiganj SFNTC	220	Cox'sbazar SFTNTC	270	Rajvilla	320	Laxmipur SFNTC
71	Charghat SFNTC	121	Hatia	171	Chittagong (North_ Town	221	Tangkabati	271	Rajshatli	321	Mirshari
72	Natore SFNTC	122	Bashtail	172	Suravi	222	Betsara	272	Noapatang	322	Sitakinda
73	Bagatipara SFNTC	123	Dalapara	173	Kumira	223	Tain	273	Rohanra	323	Chittagong HQ (Coastal)
74	Chapai Nawabganj SFNTC	124	Madhupur	174	Baiyadhala	224	Ruma	274	Bagmara	324	Banshkhali
75	Nachole SFNTC	125	Dokhola	175	Hathazari	225	Paindu	275	Leergaon	325	Kutubdia
76	Naogaon SFNTC	126	Aronkhola	176	Karerhat	226	Dhanshi	276	Kapati HQ	326	Gorakghata
77	Niamatpur SFNTC	127	Uttar Madhupur Park	177	Narayanhat	227	Lama	277	Khagrachari HQ	327	Teknaf
78	Paikbandha	128	Tangail SFNTC	178	Kalurghat	228	Matamuhuri	278	Khagrachari	328	Sandwip
79	Sapahar	129	Kalihati SFNTC	179	Olinagar	229	Naikkhingchari	279	Panchari	329	Maheshkhali
80	Jessore HQ SFNTC	130	Madhupur SFNTC	180	Hazarikgil	230	Sangu	280	Matiranga	330	Charandwip
81	Jhenaidah SFNTC	131	Rasulpur SFNTC	181	Hasnabad	231	Doluchari	281	Jaliapari	331	Urirchar

Code	Range	Code	Range	Code	Range	Code	Range	Code	Range	Code	Range
82	Kotchandpur SFNTC	132	Bhaluka SFNTC	182	Mirershari	232	Bandraban (Pulpwood) HQ	282	Ramgarh	332	Chhanua
83	Narail HQ SFNTC	133	Mymensingh Special	183	Mirersharai	233	Terecha	283	Manikchari	333	Patiya SFNTC
84	Satkhira HQ SFNTC	134	Angogora	184	Nasirabad SFNTC	234	Chemi	284	Khagrachari SFTC	334	Raojan SFNTC
85	Sharsha SFNTC	135	Rasulpur	185	Hathazari SFNTC	235	Poli	285	Seed & Nursery , Khagrachari	335	Harhazari SFNTC
86	Magura HQ SFNTC	136	Santoshpur	186	Raujan SFNTC	236	Boangchari	286	Ultachari	336	Rangunia SFNTC
87	Kushtia HQ SFNTC	137	Rangamati	187	Chittagong Town	237	Painthing	287	Phulgazi	337	Fatikchari SFNTC
88	Bheramara SFNTC	138	Rangtia	188	Kalurghat	238	Mirakha	288	Kashkhali	338	Chandpai
89	Chuadanga SFNTC	139	Madhutila	189	Patiya	239	Rematripasha	289	Kushtubdia	339	Sharankhola
90	Jiban Nagar SFNTC	140	Sandhyakura	190	Rangunia	240	Supply Chittagong	290	Tinkunia	340	Khulna
91	Meherpur SFNTC	141	Botkuchi	191	Khurushia	241	Forest Utilization , Chittagong	291	Merang	341	Satkhira
92	Gangni SFNTC	142	Shameshchura	192	Madarsha	242	Pablakhali	292	Hazachari		
93	Bagerhat HQ	143	Balijuri	193	Jaldi	243	Baghaihat	293	Bhedbhedi		
94	Bagerhat East	144	Durgapur	194	Kalipur	244	Sishahk	294	Bhola HQ		
95	Bagerhat West Rangr	145	Agricultural University SFNTC	195	Barobakia	245	Naraichari	295	Daulatkhan		
96	Bagerhat South	146	Gouripur SFNTC	196	Padua	246	Laksmichari West	296	Manpura		
97	Khulna SFNTC	147	Netrokona SFNTC	197	Dohazari	247	Laksmichari East	297	Char Fasson		

Code	Range	Code	Range	Code	Range	Code	Range	Code	Range	Code	Range
98	Bagehat SFNTC	148	Kishoreganj SFNTC	198	Chunati	248	Mesalong North	298	Kumrimukri		
96	Phultala SFNTC	149	Jamalpur SFNTC	196	Pomora SFNTC	249	Mesalong South	296	Patuakhali HQ		
100	Jagati SFNTC	150	Sherpur SFNTC	200	Patiya SFNTC	250	Rangamati	300	Golachipa HQ		

Annex 6: Forest Beats

Code	Description	Code	Description	Code	Description	Code	Description	Code	Description
1	Rajendrapur West	61	Ghior SFPC	121	Dinajpur HQ	181	Nozirpur SFPC	241	Sadarpur SFPC
2	Bishoya Kuribari	62	Saturia SFPC	122	Birol	182	Paikbandha SFPC	242	Charvadrashan SFPC
3	Baraipara	63	Shibaloy SFPC	123	Charkai	183	Dhamoirhat SFPC	243	Alfadanga SFPC
4	Bhabanipur	64	Daultpur SFPC	124	Pragpur	184	Patnitala SFPC	244	Madhukhali SFPC
5	Bhawal N. Park	65	Singair SFPC	125	Nababganj	185	Sapahar SFPC	245	Boalmari SFPC
6	Baupara	66	Harirampur SFPC	126	Haripur	186	Porsh SFPC	246	Gangabordi SFPC
7	Bankhoira	67	Manikganj HQ SFPC	127	Bhaduria	187	Putiya SFPC	247	Madaripur HQ SFPC
8	Chunati	68	Bandar SFPC	128	Hakimpur	188	Durgapur SFPC	248	Shibchar SFPC
9	Aziznagar	69	Narayanganj HQ SFPC	129	Birampur	189	Charghat SFPC	249	Rajoir SFPC
10	Harbang	70	Araihazar SFPC	130	Madhyapara	190	Bagha SFPC	250	Kalkiki SFPC
11	Puichari	71	Rupganj SFPC	131	Kushdah	191	Naldanga SFPC	251	Shariatpur SFPC

Code	Description	Code	Description	Code	Description	Code	Description	Code	Description
12	Napora	72	Sonargaon SFPC	132	Aftabganj	192	Natore SFPC	252	Moksudpur SFPC
13	Chambal	73	Monohardi SFPC	133	Bhabaipur	193	Shingra SFPC	253	Noria SFPC
14	Banshkhali	74	Belabo SFPC	134	Parbatipur	194	Boraigram SFPC	254	Jajira SFPC
15	Dulahazara	75	Shibpur SFPC	135	Ghoraghat	195	Gurudaspur SFPC	255	Bhedarganj SFPC
16	Rehabilitation	76	Narsingdi HQ SFPC	136	Phulbari	196	Bagatipara SFPC	256	Damuddya SFPC
17	Tourism	77	Roypura SFPC	137	Singra	197	Lalpur SFPC	257	Goshaihat SFPC
18	Kotbari HQ	78	Palash SFPC	138	Pirganj	198	Chapai Nawabganj HQ SPPC	258	Kashipur SFPC
19	Rajeshpur	79	Munshiganj HQ SFPC	139	Bieganj	196	Shibganj SFPC	259	Babuganj SFPC
20	Jashpur	80	Tangibari SFPC	140	Anjamkhor	200	Nachole SFPC	260	Banaripara SFPC
21	Amanganda	81	Sreenagar SFPC	141	Deviganj	201	Bholahat SFPC	261	Agoijhora SFPC
22	Jagannath Dighi	82	Lauhajong SFPC	142	Boteshwari	202	Gomastapur SFPC	262	Gaournadi SFPC
23	Jambari	83	Gazaria SFPC	143	Boda SFPC	203	Naogaon HQ SFPC	263	Ujirpur SFPC
24	Kalikrishna Nagar	84	Sirajdikhan SFPC	144	Panchagarh Beat	204	Mahadevpur SFPC	264	Jhalokathis SFPC
25	Boro Dharmapur	85	Bilonoa SFPC	145	Tetulia Beat	205	Badalgachi SFPC	265	Kathalia SFPC
26	Kotbari HQ SFPC	86	Char Abdullah	146	Uttar Govindapur SFPC	206	Atrai SFPC	266	Rajapur SFPC
27	Laksam SFPC	87	Taraganj SFPC	147	Khanshama SFPC	207	Raninagar SFPC	267	Nalsity SFPC
28	Monohorganj SFPC	88	Mithapukur HQ	148	Chirir Bandar SFPC	208	Niamatpur SFPC	268	Mehendiganj SFPC

Code	Description	Code	Description	Code	Description	Code	Description	Code	Description
29	Chauddagram SFPC	89	Jharbishla	149	Kaharol SFPC	209	Manda SFPC	269	Hijla SFNTC
30	Nagalkot SFPC	90	Helencha	150	Bochaganj SFPC	210	Jessore HQ SFPC	270	Bakerganh SFPC
31	Burishchong SFPC	91	Khoraganj	151	Birgang SFPC	211	Keshabpur SFPC	271	East Rajendrapur
32	Barura SFPC	92	Lohanipara	152	Thakurgaon HQ SFPC	212	Monirampur SFPC	272	West Rajendrapur
33	Devidwar SFPC	93	Kadirabad	153	Pirganj SFPC	213	Avoynagar SFPC	273	Surjanarayanpur
34	Chandina SFPC	94	Domar	154	Ranishangkoil SFPC	214	Bagharpara SFPC	274	Shalna
35	Homna SFPC	95	Dimla	155	Haripur SFPC	215	Sharsha SFPC	275	Gazipur
36	Dudkandi SFPC	96	Goshaiganj	156	Baliadanga SFPC	216	Jhikorgacha SFPC	276	Monipur
37	Titas SFPC	97	Satjan	157	Panchgarh HQ SFPC	217	Chaugacha SFPC	277	Sreepur
38	Meghna SFPC	98	Sundarkhata	158	Atoari SFPC	218	Kumarkhali SFPC	278	Goshinga
39	Muradnagar HQ SFPC	96	Chatunama	159	Tetulia SFPC	219	Khoksha SFPC	279	Pakiabo
40	Chandpur HQ SFPC	100	Hatibandha	160	Bogra HQ SFPC	220	Kushtia HQ SFPC	280	Satkhamair
41	Hajiganj SFPC	101	Ishwardi SFPC	161	Nandigram SFPC	221	Bheramara SFPC	281	Kaoraid
42	Shahrasti SFPC	102	Atgharia SFPC	162	Sonatala SFPC	222	Mirpur SFPC	282	Rathura
43	Kachua SFPC	103	Chatmohor SFPC	163	Shibganj SFPC	223	Daualatpur SFPC	283	Shimlapara
44	Matlab North SFPC	104	Bhangura SFPC	164	Sherpur SFPC	224	Alamdanga SFPC	284	Sinratoli
45	Matlab South SFPC	105	Pabna HQ SFPC	165	Dhunat SFPC	225	Chuadanga HQ SFPC	285	Kachghata
46	Haimchar SFPC	106	Shagaria SFPC	166	Gabtali SFPC	226	Damurhuda SFPC	286	Jatila

Code	Description	Code	Description	Code	Description	Code	Description	Code	Description
47	Faridganj SFPC	107	Sathia SFPC	167	Sariakandi SFPC	227	Jibon Nagar SFPC	287	Khoilshjani
48	Brahmanbaria HQ SFPC	108	BIRA SFPC	168	Dupchachia SFPC	228	Meherpur SFPC	288	Chandra
49	Kasba SFPC	109	Faridpur SFPC	169	Kahalu SFPC	229	Gangni SFPC	289	Baroipara
50	Nasir Nagar SFPC	110	Sijanagar SFPC	170	Adamdighi SFPC	230	Gopalganj HQ SFPC	290	Kashimpur
51	Nabi Nagar SFPC	111	Kamarkhand SFPC	171	Joypurhat SFPC	231	Tungipara SFPC	291	Mauchak
52	Bancharampur SFPC	112	Belkuchi SFPC	172	Akkelpur SFPC	232	Kotalipara SFPC	292	Roghunathpur
53	Sarail SFPC	113	Chauhali SFPC	173	Panchbibi SFPC	233	Kashiani SFPC	293	Shonatala
54	Akhaura SFPC	114	Sirajganj HQ SFPC	174	Kalai SFPC	234	Rajbari SFPC	294	Kodda
55	Dhamrai SFPC	115	Shahjadpur SFPC	175	Khetlal SFPC	235	Baliakandi SFPC	295	Boali
56	savar SFPC	116	Tarash SFPC	176	Paba SFPC	236	Pangsha SFPC	296	Govindpur
57	Dohar SFPC	117	Kazipur SFPC	177	Mohanpur SFPC	237	Goalando SFPC	297	Vannara
58	Nawabganj SFPC	118	Ullapara SFPC	178	Bagmara SFPC	238	Faridpur HQ SFPC	298	Gazipur HQ SFPC
59	Keraniganj SFPC	119	Rouganj SFPC	179	Tanore SFPC	239	Nagarkanda SFPC	296	Kaliakoir SFPC
60	Dhaka HQ SFPC	120	Dharmapur	180	Godagari SFPC	240	Bhanga SFPC	300	Kaliganj SFPC

Annex 8: Contacts list

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HH Field survey team

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Annex 9: Land cover classes and their description

Values	Code	Description
	FH	The natural forest area located in the mountainous tracts of the greater Chittagong, Chittagong Hill Tracts (CHTs) and Sylhet districts is known as hill forest. It consists of moist tropical evergreen, semi-evergreen trees and deciduous trees and generally uneven-aged. Shrubs and herbs occur fewer to medium in number as undergrowth in this forest. The tree cover is ranging from 10% - 100% and tree height is ranging from 5-35 m.
	FDp	Land dominated with tropical moist deciduous forests is known as plain land sal forest. The main species is Sal (Shorea robusta) and its height is 5 -35 m. It covers ranging from 10% - 100%. Sal forests have a fairly wide but interrupted distribution in drier central and northern part of the country, mostly occurring in Gazipur, Tangail, Mymensingh, Jamalpur, Comilla, Dinajpur, Thakurgaon, Rangpur and Rajshahi districts.
	BF	Bamboo forest is woody grass of more than 5m and it covers more than 80% within a patches. It is perennial evergreen and it grows up to 15m. The bamboos in the rural areas are not included in this class. Major species of bamboo are Muli (Melocannabaccifera), Mitenga (Bambusatulda), Dalu (Neo houzeauadullooa) etc. This class is located in the hilly areas of Chittagong, Chittagong Hill Tracts and Sylhet.
	S	The shrub dominated area is natural woody vegetation of less than 5m in height and its cover exceed 10%. The uppermost canopy layer may be dominated by trees. The shrub foliage can be either evergreen or deciduous. This type of area is common in Chittagong, Cox's Bazar, Sylhet and Chittagong Hill Tract.
	ShF	The land cover is dominated by natural woody vegetation with a height less than 5 meters and covers more than 75% of the area. The uppermost canopy layer is dominated by less than 10% of tree cover. This land cover is commonly found in Chittagong, Chittagong hill tracts, Cox's Bazar, Sylhet, Moulavobazar and Habiganj.
	H	The geographic area, which is dominated by grass with very little to no woody vegetation, is called herb dominated area. These types of vegetation are generally found in newly accreted land, year round fallow land or adjacent to the international boundary of Bangladesh. The coverage is 20 - 100%.
	SF	The Land dominated by evergreen trees, which is inundated in monsoon with freshwater, is known as swamp forest. Roots of these trees are in two levels. One is in the ground, and another is in the mid-level, which is used while the forest is flooded in the monsoon period. Trees grow to about 5 – 35 m in height with a large canopy. Ratargul swamp forest is the only swamp forest of Bangladesh, which is located in Gowainghat, Sylhet. Most of the trees of this forest are Koroch (Millettia pinnata).

	NMF		The geographical area which is dominated by halophytic natural trees and the forest floor is inundated twice daily by brackish water is known as mangrove forest. The canopy cover of mangrove forest varies from 10% to 100% and the tree height varies from 5m - 33m. The undergrowth is mostly seedlings of the mangrove trees. The forest area is intersected by numerous rivers and creeks. The dominant mangrove species is sundri (Heritiera fomes). Other species include Avicennia spp., Xylocarpus mekongensis, Xylocarpus granatum, Sonneratia apetala, Bruguiera gymnorrhiza, Ceriops decandra, Aegiceras corniculatum, Rhizophora mucronata, and Nypa fruticans palms.
	SWr		The geographical area which is dominated by reed shrub and the root system is influenced by the fresh water is known as Swamp Reed Land. The swamp reed lands are scattered over five upazilas of the Sunamganj and Sylhet Districts of the Sylhet Division of Bangladesh.
	FP		The geographic area where trees are planted under long-term or short-term management for production of high volume of timber and fuel wood is known as forest plantation. Trees are generally even-aged, planted and managed in rows, consist of a single species and cover a large area. Tree height is ranging from 5- 45 m and its coverage is ranging from 10% - 100%. Sometimes annual agricultural crops are also incorporated with the forest plantation (Agroforestry).
	FPr		This class includes the geographic areas where rubber (Heveabrasiliensis) is planted for latex production. It is broadleaved, deciduous in the drier month for a very short period. It is monotype forest and trees area generally even-aged, planted and managed in rows. It grows 5 – 45m and cover ranging from 10% – 100%.
	OT		This class includes the geographic areas dominated by fruit trees. Trees are even-aged, planted and managed in rows, and cover a large area. Plantations in marginal land (roadside, railway line, embankment, and canal side) are also included in this class.
	OS		The land areas where shrubs are planted for fruits and leaf are called orchards and other Plantations. This class mainly includes tea gardens. The use of shade trees in tea cultivation is a vital and integral component.
	PCs		This class includes agriculture lands cultivated with a single herbaceous crop in a year and the same herbaceous crop is cultivated in the same land for several years. This class includes both herbaceous rice fields and non- rice fields (pineapple, banana, sugarcane etc.) where only one crop is practiced in a year. The rice crop fields may be flooded in the growing season or in the monsoon period after harvesting.
	PCm		This class includes agriculture lands which are cultivated with more than one herbaceous crop (two or three) in different growing season sequentially (crop diversified in time) within a year and the same crop rotation is practiced in the same land for several years. Some of these agricultural lands are flood free and others are flooded due to river flood or rainfall flood in monsoon period after harvesting the crops.

	SC	This class includes lands where herbaceous crops are cultivated temporarily, then abandoned and allowed to return to their natural vegetation while the farmer moves on to another area.
	FMp	This class includes mangrove plantations on newly accreted land in the estuaries of the Bay of Bengal to provide protection against natural calamities and land erosion.
	FSp	The Land dominated by evergreen trees, which are cultivated and inundated in monsoon with freshwater, is known as Swamp Plantation. Trees grow to about 5 - 45m in height with a large canopy.
	MF	Mud flats or intertidal areas are wet land soil near the estuary. It is submerged and exposed twice daily by tidal water.
	BS	Sand are soil, sand deposits within the river channels or in the estuary, which are emerging as islands.
	RB	The river bank is the land alongside the bed of a river which is usually consists of soil and sand deposits and inundated when the river flows with full capacity.
	BNL	The artificial and impervious surfaces which is paved with hard materials and functionally linked with vegetated areas, recreational parks and water bodies are built-up non linear.
	DS	Land used for disposal of waste materials is known as dump sites. Extraction sites are defined by the absence of the original land cover which is removed by human activity or machinery for extraction of sand, stone, minerals or coal.
	SP	The artificial land surfaces which are used for salt production from seawater by solar evaporation.
	B	The brickfields are geographic areas, which are used for bricks production.
	Ap	The airport is built-up nonlinear area which is used for flights to take off and land.
	R	The rivers and khals are natural water courses which are serving as water drainage channels.
	Ba	Baors or oxbow lakes are old river channels. Those have limited connection to their parent rivers in the monsoon season. It is created when a wide meander from the main stem of a river is cut off, creating a free-standing body of water. The persistence of staying water ranges from 11 to 12 months.
	BH	The standing water bodies located in the low-lying depression on the flood plain where water persists 12 months are known as perennial (core) beels and haors.

	L	A lake is an artificial surface of standing water that is usually bigger (> 50 ha) than a pond and have irregular shape.
	Po	A pond is an artificial surface of standing water that is usually smaller than a lake and has a regular shape. The ponds more than 0.3 hectares were included in this class. The ponds functionally related with rural settlement were included in the "Rural Settlement (RS)" class.
	BWa	This class includes the geographic areas, which are used for year round brackish water aquaculture. This class may include the areas where it is practiced after harvesting the rice crop.
	FWa	This class includes the geographic areas which are used for year round fresh water aquaculture. This class may include the areas where fresh water aquaculture is practiced after harvesting the rice crop.
	RS	The rural settlement are geographic areas of clustered or linear rural dwellings which are covered by fruit trees and other plantation and functionally linked with small scale vegetables gardens, open spaces and ponds around the dwellings. Rural markets or growth centres within the rural environment are also included in this class.

Annex 10. Household questionnaire

8. NATIONAL SOCIOECONOMIC SURVEY IN FORESTRY: QUESTIONNAIRE FOR HOUSEHOLD (HH) MODULE

8.1. AREA IDENTIFICATION

VARIABLES	CODES						
8.1.1. HH unique number							
8.1.2. Interview date (DD-MM-YY)							
8.1.3. Division							
8.1.4. District							
8.1.5. Upazila							
8.1.6. Union							
8.1.7. Mauza							
8.1.8. Ward							
8.1.9. Village							
8.1.10. Zone							
8.1.11. Stratum							
8.1.12. Forest Division							
8.1.13. Forest Range							
8.1.14. Forest Beat							
8.1.15. HH survey point							
8.1.16. GPS Coordinate	Latitude (N)						

	Longitude (E)						
8.1.17. Starting time of interview (HH:MM)							
8.1.18. Name of interviewer							

8.2. DEMOGRAPHIC INFORMATION

8.2.1. Name of the respondent………………………………………

8.2.2. Age of the respondent……………. (in years)

8.2.3. Gender of the respondent □ 1= Male □ 2= Female □ 3= Third gender

8.2.4. Which ethinic group does the HH belong to?

□1=Bagdi	□11=Hajong	□21=Mahali	□31=Pahan	□41=Tripura
□2=Barman	□12=Garo	□22=Mahato	□32=Pahari	□42=Usui
□3=Bawm	□13=Karmakar	□23=Malo	□33=Palia	□ 96=Other (please specify)
□4=Bengali	□14=Khasia	□24=Manupuri	□34=Pangan	
□5=Bhuimali	□15=Kheyang	□25=Marma	□35=Pangkhoa	
□6=Bhumij	□16=Khumi	□26=Malpahari	□36=Rabidas	
□7=Bonaj	□17=Koch	□27=Mro or Murong	□37=Rajbangshii	
□8=Chak	□18=Kole	□28=Munda	□38=Rakhain	
□9=Chakma	□19 =Lahra	□9=Mushhor	□39=Santal	
□10=Dalu	□20=Lushai	□30=Oraon	□40=Tanchangya	

8.2.5. How many members are there in this HH? .... People

8.2.6. What is the age distribution of your HH members according to gender?

Gender	Age class			
	<15 years	15-29 years	30– 64 years	>64 years
□1=Male				
□2=Female				
□3=Third gender				

8.3. BIODIVERSITY AND CONSERVATION

8.3.1. Are there any **plant species** that were abundantly available in the past, but rarely seen now-a-days in your union?

□ 0=No (*then please ask question 8.3.4*)

□ 1=Yes (*then please ask the question 8.3.2-8.3.3*)

□ 99=Do not know (*then please ask question 8.3.4*)

8.3.2. What are the plant species not found abundantly like before in the union? *(please write down the maximum five local names)*	8.3.3. In your opinion, what are the main reasons of reduction in number of these species? *1=Land use change* *2=Over harvesting* *3=Lack of proper management* *4=Natural disasters* *96= Others (please specify)*
1.	
2.	
3.	
4.	
5.	

8.3.4. Are there any **animal species** that were abundantly available in the past, but rarely seen now-a-days in your union?
□ 0=No (*then please ask question 8.4.1*)
□ 1=Yes (*then please ask the question 8.3.5-8.3.6*)
□ 99=Do not know (*then please ask question 8.4.1*)

8.3.5. What are the animal species not found abundantly like before in the union? *(please write down the maximum five local names)*	8.3.6. In your opinion, what are the main reasons of reduction in number of these species? *1=Loss of habitat* *2=Hunting* *3=Lack of proper management* *4=Natural disasters* *96= Others (please specify)*
1.	
2.	
3.	
4.	
5.	

8.4 DISTURBANCES, FOREST DEGRADATION AND RESILIENCE

8.4.1. Are there any disturbances that have affected trees and forests resources in your union in past ten years?

□ 0=No (*then please ask question 8.5.1*)
□ 1=Yes (*then please ask question 8.4.2*)
□ 99= Don't know (*then please ask question 8.5.1*)

8.4.2. What types of disturbances have occurred in your union?
□ 1=Human made (*then please ask questions 8.4.3-8.4.5*)
□ 2=Natural (*then please ask questions 8.4.6- 8.4.8*)

Human made disturbances

8.4.3. What are the human made disturbances that have occurred in your union? (*Please read out the below options and make the respondent understand these*)	8.4.4. What is the severity of disturbances? 1=Very low, 2=Low, 3=Medium, 4=High, 5=Very high	8.4.5. Where have these disturbances occurred? (*Please note down the code of land cover class according to manual*)
□ 1=Encroachment		
□2=Illegal logging		
□3=Legal conversion of forest land to other uses		
□4= Excessive collection of fuelwood		
□5=Excessive collection of NWFP		
□6= Grazing		
□7= Fire		
□8= Oil spills		
□9= Gas exploration		
□10=Sand/stone quarry		
□11= Hill cutting		
□12= Other mining activities		
□13=Infrastructure development (e.g. building, road, bridge and dam)		
□96= Others (please specify)		

Natural disturbances

8.4.6. What are the natural disturbances that have occurred in your union?	8.4.7. What is the severity of disturbances?	8.4.8. Where have these disturbances occurred?

(Please read out the below options and make the respondent understand these)	1=Very low, 2=Low, 3=Medium, 4=High, 5=Very high	(Please note down the code of land cover class according to manual or land cover map)
□1 = Excessive rainfall		
□2 = Landslide/river erosion		
□3 = Waterlogging		
□4 = Flooding		
□5 = Cyclone/tidal surges		
□6 = Siltation		
□7 = Drought		
□8 = Earthquakes		
□9 = Pest and diseases		
□10 = Increased salinity		
□96=Others (please specify)		

8.5 ECONOMICS AND LIVELIHOOD

8.5.1. Does your HH **collect** forest and tree products or **generate income** from them in the past 12 months?
□ 0= No, (*then please ask question 8.5.41*)
□ 1=Yes (*then please ask question 8.5.2*)

8.5.2. What is the nature of products collected or income generated?

□ 1=Primary tree and forest products (i.e. traditionally collected from tree and forest resources i.e. provisioning services), (*then please ask question 8.5.3*)
□ 2= Processed tree and forest products, (*then please ask the questions 8.5.19*)
□ 3=Employment in an institution or business related to tree and forest activities, (*then please ask questions 8.5.40*)

Primary tree and forest products (i.e. traditionally collected from tree and forest resources i.e., provisioning ecosystem services)

8.5.3. What are the tree and forest products collected by your HH?	8.5.4. What was the amount your HH collected in the past 12 months? (quantity/year)	8.5.5. How many members of your HH are involved in the collection of primary tree and forest products? (numbers)	8.5.6. How many months a year does your HH usually collect these products? (If more than one member involved in tree and forest products collection, then calculate total months and write the average month) (months/yr)	8.5.7. How many days a month do your HH members collect the primary forest products? (If more than one member involved in tree and forest products collection, then calculate total days and write the average day) days/month	8.5.8. How many hours a day does HH members spend in collecting forest products? (If more than one member involved in tree and forest products collection, then calculate total hour and write the average hour) hours/day	8.5.9. Have your HHs sold any collected tree and forest products? 0=No, please go to 8.5.14 1=Yes, please continue to question no. 8.5.10	8.5.10. What amount is usually sold in the past 12 months? (quantity/yr)	8.5.11 How many months a year does your HH sell? (month/yr)	8.5.12. What is the unit price? (BDT/unit)	8.5.13. What is the cost of selling (including transportation and other costs? (BDT/month)	8.5.14. From where has your HH primarily collected the products? (Please note down the code of land cover class according to manual or land cover map)	8.5.15. What is the ownership of the land from where the product was collected? 1=Private-Owned by individuals or families 2=Forest Department 3=Government- other institutions 4- Community institutions 96=Other (please specify) 99=Unknown
						Materials						
□ 1=Timber	………… cft											
□ 2 = Poles	…………. No.											
□ 3 = Barks	…………. kg.											

8.5.3. What are the tree and forest products collected by your HH?	8.5.4. What was the amount your HH collected in the past 12 months? (quantity/year)	8.5.5. How many members of your HH are involved in the collection of primary tree and forest products? (numbers)	8.5.6. How many months a year does your HH usually collect these products? (If more than one member involved in tree and forest products collection, then calculate total months and write the average month) (months/yr)	8.5.7. How many days a month do your HH members collect the primary forest products? (If more than one member involved in tree and forest products collection, then calculate total days and write the average day) days/month	8.5.8. How many hours a day does HH members spend in collecting forest products? (If more than one member involved in tree and forest products collection, then calculate total hour and write the average hour) hours/day	8.5.9. Have your HHs sold any collected tree and forest products? 0=No, please go to 8.5.14 1=Yes, please continue to question no. 8.5.10	8.5.10. What amount is usually sold in the past 12 months? (quantity/yr)	8.5.11 How many months a year does your HH sell? (month/yr)	8.5.12. What is the unit price? (BDT/unit)	8.5.13. What is the cost of selling (including transportation and other costs? (BDT/month)	8.5.14. From where has your HH primarily collected the products? (Please note down the code of land cover class according to manual or land cover map)	8.5.15. What is the ownership of the land from where the product was collected? 1=Private-Owned by individuals or families 2=Forest Department 3=Government- other institutions 4- Community institutions 96=Other (please specify) 99=Unknown
□ 4 = Bamboo	………….. No.											
□ 5 = Cane	…………. No											
□6=Lianas and vines	…………… kg											

8.5.3. What are the tree and forest products collected by your HH?	8.5.4. What was the amount your HH collected in the past 12 months? (quantity/year)	8.5.5. How many members of your HH are involved in the collection of primary tree and forest products? (numbers)	8.5.6. How many months a year does your HH usually collect these products? (If more than one member involved in tree and forest products collection, then calculate total months and write the average month) (months/yr)	8.5.7. How many days a month do your HH members collect the primary forest products? (If more than one member involved in tree and forest products collection, then calculate total days and write the average day) days/month	8.5.8. How many hours a day does HH members spend in collecting forest products? (If more than one member involved in tree and forest products collection, then calculate total hour and write the average hour) hours/day	8.5.9. Have your HHs sold any collected tree and forest products? 0=No, please go to 8.5.14 1=Yes, please continue to question no. 8.5.10	8.5.10. What amount is usually sold in the past 12 months? (quantity/yr)	8.5.11 How many months a year does your HH sell? (month/yr)	8.5.12. What is the unit price? (BDT/unit)	8.5.13. What is the cost of selling (including transportation and other costs? (BDT/month)	8.5.14. From where has your HH primarily collected the products? (Please note down the code of land cover class according to manual or land cover map)	8.5.15. What is the ownership of the land from where the product was collected? 1=Private-Owned by individuals or families 2=Forest Department 3=Government- other institutions 4-Community institutions 96=Other (please specify) 99=Unknown
□7=Brooms	.........bundle											
□8=Thatching materials	.........bundle											
□9=Reeds	.........bundle											

8.5.3. What are the tree and forest products collected by your HH?	8.5.4. What was the amount your HH collected in the past 12 months? (quantity/year)	8.5.5. How many members of your HH are involved in the collection of primary tree and forest products? (numbers)	8.5.6. How many months a year does your HH usually collect these products? (If more than one member involved in tree and forest products collection, then calculate total months and write the average month) (months/yr)	8.5.7. How many days a month do your HH members collect the primary forest products? (If more than one member involved in tree and forest products collection, then calculate total days and write the average day) days/month	8.5.8. How many hours a day does HH members spend in collecting forest products? (If more than one member involved in tree and forest products collection, then calculate total hour and write the average hour) hours/day	8.5.9. Have your HHs sold any collected tree and forest products? 0=No, please go to 8.5.14 1=Yes, please continue to question no. 8.5.10	8.5.10. What amount is usually sold in the past 12 months? (quantity/yr)	8.5.11 How many months a year does your HH sell? (month/yr)	8.5.12. What is the unit price? (BDT/unit)	8.5.13. What is the cost of selling (including transportation and other costs? (BDT/month)	8.5.14. From where has your HH primarily collected the products? (Please note down the code of land cover class according to manual or land cover map)	8.5.15. What is the ownership of the land from where the product was collected? 1=Private-Owned by individuals or families 2=Forest Department 3=Government- other institutions 4-Community institutions 96=Other (please specify) 99=Unknown
□10=*Nypa* (golpata)	.........bundle											
□11=Bee wax	...............kg											
□12=Ornamental plants	...............No.											

8.5.3. What are the tree and forest products collected by your HH?	8.5.4. What was the amount your HH collected in the past 12 months? (quantity/year)	8.5.5. How many members of your HH are involved in the collection of primary tree and forest products? (numbers)	8.5.6. How many months a year does your HH usually collect these products? (If more than one member involved in tree and forest products collection, then calculate total months and write the average month) (months/yr)	8.5.7. How many days a month do your HH members collect the primary forest products? (If more than one member involved in tree and forest products collection, then calculate total days and write the average day) days/month	8.5.8. How many hours a day does HH members spend in collecting forest products? (If more than one member involved in tree and forest products collection, then calculate total hour and write the average hour) hours/day	8.5.9. Have your HHs sold any collected tree and forest products? 0=No, please go to 8.5.14 1=Yes, please continue to question no. 8.5.10	8.5.10. What amount is usually sold in the past 12 months? (quantity/yr)	8.5.11 How many months a year does your HH sell? (month/yr)	8.5.12. What is the unit price? (BDT/unit)	8.5.13. What is the cost of selling (including transportation and other costs? (BDT/month)	8.5.14. From where has your HH primarily collected the products? (Please note down the code of land cover class according to manual or land cover map)	8.5.15. What is the ownership of the land from where the product was collected? 1=Private-Owned by individuals or families 2=Forest Department 3=Government- other institutions 4-Community institutions 96=Other (please specify) 99=Unknown
□13= Medicinal plants	.... kg											
□14= Murta/patipata	.........bundle											

8.5.3. What are the tree and forest products collected by your HH?	8.5.4. What was the amount your HH collected in the past 12 months? (quantity/year)	8.5.5. How many members of your HH are involved in the collection of primary tree and forest products? (numbers)	8.5.6. How many months a year does your HH usually collect these products? (If more than one member involved in tree and forest products collection, then calculate total months and write the average month) (months/yr)	8.5.7. How many days a month do your HH members collect the primary forest products? (If more than one member involved in tree and forest products collection, then calculate total days and write the average day) days/month	8.5.8. How many hours a day does HH members spend in collecting forest products? (If more than one member involved in tree and forest products collection, then calculate total hour and write the average hour) hours/day	8.5.9. Have your HHs sold any collected tree and forest products? 0=No, please go to 8.5.14 1=Yes, please continue to question no. 8.5.10	8.5.10. What amount is usually sold in the past 12 months? (quantity/yr)	8.5.11 How many months a year does your HH sell? (month/yr)	8.5.12. What is the unit price? (BDT/unit)	8.5.13. What is the cost of selling (including transportation and other costs? (BDT/month)	8.5.14. From where has your HH primarily collected the products? (Please note down the code of land cover class according to manual or land cover map)	8.5.15. What is the ownership of the land from where the product was collected? 1=Private-Owned by individuals or families 2=Forest Department 3=Government- other institutions 4-Community institutions 96=Other (please specify) 99=Unknown
□15= Lac	……………… kg											
□16 = Tree seedlings	…………….. No.											
□17=Fodder	……………… kg											

8.5.3. What are the tree and forest products collected by your HH?	8.5.4. What was the amount your HH collected in the past 12 months? (quantity/year)	8.5.5. How many members of your HH are involved in the collection of primary tree and forest products? (numbers)	8.5.6. How many months a year does your HH usually collect these products? (If more than one member involved in tree and forest products collection, then calculate total months and write the average month) (months/yr)	8.5.7. How many days a month do your HH members collect the primary forest products? (If more than one member involved in tree and forest products collection, then calculate total days and write the average day) days/month	8.5.8. How many hours a day does HH members spend in collecting forest products? (If more than one member involved in tree and forest products collection, then calculate total hour and write the average hour) hours/day	8.5.9. Have your HHs sold any collected tree and forest products? 0=No, please go to 8.5.14 1=Yes, please continue to question no. 8.5.10	8.5.10. What amount is usually sold in the past 12 months? (quantity/yr)	8.5.11 How many months a year does your HH sell? (month/yr)	8.5.12. What is the unit price? (BDT/unit)	8.5.13. What is the cost of selling (including transportation and other costs? (BDT/month)	8.5.14. From where has your HH primarily collected the products? (Please note down the code of land cover class according to manual or land cover map)	8.5.15. What is the ownership of the land from where the product was collected? 1=Private-Owned by individuals or families 2=Forest Department 3=Government- other institutions 4-Community institutions 96=Other (please specify) 99=Unknown
□18= Seeds	…………… kg											
Energy												
□19=Fuelwood	…………… kg											

8.5.3. What are the tree and forest products collected by your HH?	8.5.4. What was the amount your HH collected in the past 12 months? (quantity/year)	8.5.5. How many members of your HH are involved in the collection of primary tree and forest products? (numbers)	8.5.6. How many months a year does your HH usually collect these products? (If more than one member involved in tree and forest products collection, then calculate total months and write the average month) (months/yr)	8.5.7. How many days a month do your HH members collect the primary forest products? (If more than one member involved in tree and forest products collection, then calculate total days and write the average day) days/month	8.5.8. How many hours a day does HH members spend in collecting forest products? (If more than one member involved in tree and forest products collection, then calculate total hour and write the average hour) hours/day	8.5.9. Have your HHs sold any collected tree and forest products? 0=No, please go to 8.5.14 1=Yes, please continue to question no. 8.5.10	8.5.10. What amount is usually sold in the past 12 months? (quantity/yr)	8.5.11 How many months a year does your HH sell? (month/yr)	8.5.12. What is the unit price? (BDT/unit)	8.5.13. What is the cost of selling (including transportation and other costs? (BDT/month)	8.5.14. From where has your HH primarily collected the products? (Please note down the code of land cover class according to manual or land cover map)	8.5.15. What is the ownership of the land from where the product was collected? 1=Private-Owned by individuals or families 2=Forest Department 3=Government- other institutions 4-Community institutions 96=Other (please specify) 99=Unknown
□20=Leaves, twigs and branch	.... kg											
□21= Other energy (Please specify)	.... kg											

8.5.3. What are the tree and forest products collected by your HH?	8.5.4. What was the amount your HH collected in the past 12 months? (quantity/year)	8.5.5. How many members of your HH are involved in the collection of primary tree and forest products? (numbers)	8.5.6. How many months a year does your HH usually collect these products? (If more than one member involved in tree and forest products collection, then calculate total months and write the average month) (months/yr)	8.5.7. How many days a month do your HH members collect the primary forest products? (If more than one member involved in tree and forest products collection, then calculate total days and write the average day) days/month	8.5.8. How many hours a day does HH members spend in collecting forest products? (If more than one member involved in tree and forest products collection, then calculate total hour and write the average hour) hours/day	8.5.9. Have your HHs sold any collected tree and forest products? 0=No, please go to 8.5.14 1=Yes, please continue to question no. 8.5.10	8.5.10. What amount is usually sold in the past 12 months? (quantity/yr)	8.5.11 How many months a year does your HH sell? (month/yr)	8.5.12. What is the unit price? (BDT/unit)	8.5.13. What is the cost of selling (including transportation and other costs? (BDT/month)	8.5.14. From where has your HH primarily collected the products? (Please note down the code of land cover class according to manual or land cover map)	8.5.15. What is the ownership of the land from where the product was collected? 1=Private-Owned by individuals or families 2=Forest Department 3=Government- other institutions 4-Community institutions 96=Other (please specify) 99=Unknown
Nutrition												
□22=Fruits	.... kg											
□23=Bamboo shoots	.... kg											
□24=Mushrooms	.... kg											

8.5.3. What are the tree and forest products collected by your HH?	8.5.4. What was the amount your HH collected in the past 12 months? (quantity/year)	8.5.5. How many members of your HH are involved in the collection of primary tree and forest products? (numbers)	8.5.6. How many months a year does your HH usually collect these products? (If more than one member involved in tree and forest products collection, then calculate total months and write the average month) (months/yr)	8.5.7. How many days a month do your HH members collect the primary forest products? (If more than one member involved in tree and forest products collection, then calculate total days and write the average day) days/month	8.5.8. How many hours a day does HH members spend in collecting forest products? (If more than one member involved in tree and forest products collection, then calculate total hour and write the average hour) hours/day	8.5.9. Have your HHs sold any collected tree and forest products? 0=No, please go to 8.5.14 1=Yes, please continue to question no. 8.5.10	8.5.10. What amount is usually sold in the past 12 months? (quantity/yr)	8.5.11 How many months a year does your HH sell? (month/yr)	8.5.12. What is the unit price? (BDT/unit)	8.5.13. What is the cost of selling (including transportation and other costs? (BDT/month)	8.5.14. From where has your HH primarily collected the products? (Please note down the code of land cover class according to manual or land cover map)	8.5.15. What is the ownership of the land from where the product was collected? 1=Private-Owned by individuals or families 2=Forest Department 3=Government- other institutions 4- Community institutions 96=Other (please specify) 99=Unknown
□25= Root tubers	.... kg											
□26= Other vegetables	.... kg											
□27= Spices	.... kg											

8.5.3. What are the tree and forest products collected by your HH?	8.5.4. What was the amount your HH collected in the past 12 months? (quantity/year)	8.5.5. How many members of your HH are involved in the collection of primary tree and forest products? (numbers)	8.5.6. How many months a year does your HH usually collect these products? (If more than one member involved in tree and forest products collection, then calculate total months and write the average month) (months/yr)	8.5.7. How many days a month do your HH members collect the primary forest products? (If more than one member involved in tree and forest products collection, then calculate total days and write the average day) days/month	8.5.8. How many hours a day does HH members spend in collecting forest products? (If more than one member involved in tree and forest products collection, then calculate total hour and write the average hour) hours/day	8.5.9. Have your HHs sold any collected tree and forest products? 0=No, please go to 8.5.14 1=Yes, please continue to question no. 8.5.10	8.5.10. What amount is usually sold in the past 12 months? (quantity/yr)	8.5.11 How many months a year does your HH sell? (month/yr)	8.5.12. What is the unit price? (BDT/unit)	8.5.13. What is the cost of selling (including transportation and other costs? (BDT/month)	8.5.14. From where has your HH primarily collected the products? (Please note down the code of land cover class according to manual or land cover map)	8.5.15. What is the ownership of the land from where the product was collected? 1=Private-Owned by individuals or families 2=Forest Department 3=Government- other institutions 4-Community institutions 96=Other (please specify) 99=Unknown
□28= Wild meat	………… kg											
□29= Other animal products	…………unit											
□30=Fish	………… kg											

8.5.3. What are the tree and forest products collected by your HH?	8.5.4. What was the amount your HH collected in the past 12 months? (quantity/year)	8.5.5. How many members of your HH are involved in the collection of primary tree and forest products? (numbers)	8.5.6. How many months a year does your HH usually collect these products? (If more than one member involved in tree and forest products collection, then calculate total months and write the average month) (months/yr)	8.5.7. How many days a month do your HH members collect the primary forest products? (If more than one member involved in tree and forest products collection, then calculate total days and write the average day) days/month	8.5.8. How many hours a day does HH members spend in collecting forest products? (If more than one member involved in tree and forest products collection, then calculate total hour and write the average hour) hours/day	8.5.9. Have your HHs sold any collected tree and forest products? 0=No, please go to 8.5.14 1=Yes, please continue to question no. 8.5.10	8.5.10. What amount is usually sold in the past 12 months? (quantity/yr)	8.5.11 How many months a year does your HH sell? (month/yr)	8.5.12. What is the unit price? (BDT/unit)	8.5.13. What is the cost of selling (including transportation and other costs? (BDT/month)	8.5.14. From where has your HH primarily collected the products? (Please note down the code of land cover class according to manual or land cover map)	8.5.15. What is the ownership of the land from where the product was collected? 1=Private-Owned by individuals or families 2=Forest Department 3=Government- other institutions 4-Community institutions 96=Other (please specify) 99=Unknown
□31=Shrimp	.... kg											
□32=Shrimp fry	.... no.											
□33=Crabs	.... kg											

8.5.3. What are the tree and forest products collected by your HH?	8.5.4. What was the amount your HH collected in the past 12 months? (quantity/year)	8.5.5. How many members of your HH are involved in the collection of primary tree and forest products? (numbers)	8.5.6. How many months a year does your HH usually collect these products? (If more than one member involved in tree and forest products collection, then calculate total months and write the average month) (months/yr)	8.5.7. How many days a month do your HH members collect the primary forest products? (If more than one member involved in tree and forest products collection, then calculate total days and write the average day) days/month	8.5.8. How many hours a day does HH members spend in collecting forest products? (If more than one member involved in tree and forest products collection, then calculate total hour and write the average hour) hours/day	8.5.9. Have your HHs sold any collected tree and forest products? 0=No, please go to 8.5.14 1=Yes, please continue to question no. 8.5.10	8.5.10. What amount is usually sold in the past 12 months? (quantity/yr)	8.5.11 How many months a year does your HH sell? (month/yr)	8.5.12. What is the unit price? (BDT/unit)	8.5.13. What is the cost of selling (including transportation and other costs? (BDT/month)	8.5.14. From where has your HH primarily collected the products? (Please note down the code of land cover class according to manual or land cover map)	8.5.15. What is the ownership of the land from where the product was collected? 1=Private-Owned by individuals or families 2=Forest Department 3=Government- other institutions 4-Community institutions 96=Other (please specify) 99=Unknown
□34=Honey	.... kg											
□35=Wax	.... kg											
96=Other (specify)	.... kg											

8.5.16. What is the age distribution of HH members involved in collecting primary forest products according to gender?

Gender	Age class			
	<15 years	15-29 years	30– 64 years	>64 years
□1=Male				
□2=Female				
□3=Third gender				

8.5.17. What are the wild animals hunted by your HH members? (please check the options 28 and 29 at *question no. 8.5.3). Please write down the names of three most hunted wild species.*
1.................................   2..   3..

8.5.18. Which tree and forests products does your HH mostly depend for livelihood?
Please mention five most important tree and forest products
1..............................   2....................................   3.................................   4..............................5.............................

Processed tree and forest products

8.5.19. What types of processed products of your HH produced in past 12 months?	8.5.20.. How much of these products has been produced in the past 12 months? (Quantity/	8.5.21. How many members of your HH are involved in processing the products?. (numbers)	8.5.22. How many months in a year do your HH members process? month/yr	8.5.23. How many days a month do they process? day/month	8.5.24. How many hours a day does each HH member spend in processing? hour/day	8.5.25. Do your HH need to buy any raw materials (e.g. timber, cane) for producing these products? □ 0= No, go to questi	8.5.26. *If yes,* what is the cost of raw materials? (BDT/month)	8.5.27. Have you hired any labour for making or processing products? □0=No, go to question 8.5.29 □1=Yes, go to the question 8.5.28	8.5.28. If you hire labour for processing /selling, how much do you pay per month? BDT/month	8.5.29. Do your HH sold processed prodcuts in the past 12 months? □ 0= No, go to question 8.5.38 □ 1 = Yes, go to the question	8.5.30. How much of these products has been sold in the past 12 months? Quantity/	8.5.31. How many members of your HH are involved in selling of processed products? (numbers)	8.5.32. How many months in a year do your HH members sell? month/yr	8.5.33. How many days a month do they sell? day/month	8.5.34. How many hours a day does HH member spend in selling? hour/day	8.5.35. What is the approximate income from selling those produces? (BDT/month)	8.5.36. Do you HH require transportation and others costs for selling the processing products? □0=No, go to question 8.5.38 □1=Yes, go to the question 8.5.37	8.5.37. If there are any transportation and other costs involved with selling, how much are they? (BDT/month)

					on 8.5.27 □ 1 = Yes, go to question no. 8.5.26				no. 8.5.30									
□1= Charcoal	......kg																	
□2= Wooden furniture	......No																	
□3= Wooden agricultural appliances	..... No																	
□4= Handicrafts	..... No																	
□5= Ash	..... kg																	
□96= Others (please specify)	...... Unit																	

8.5.38. What is the age distribution of HH members involved in processing processed products according to gender?

Gender	Age class			
	<15 years	15-29 years	30– 64 years	>64 years
□1=Male				
□2=Female				
□3=Third gender				

8.5.39. What is the age distribution of HH members involved in selling of processed products according to gender?

Gender	Age class			
	<15 years	15-29 years	30– 64 years	>64 years
□1=Male				
□2=Female				
□3=Third gender				

Employment in tree and forest related activities

8.5.40. How many members of your HH are employed by an institution or business related to trees and forests? *(Please record the total number of HH involved, gender, age, numbers of months employed per year and average monthly salary)*

8.5.40.1. Total number of HH employed	8.5.40.2. Gender □1=Male □2=Female □3=Third gender	8.5.40.3. Age (in years)	8.5.40.4. Number of months employed per year (months/yr)	8.5.40.5. Average monthly salary BDT/month

8.5.41. Do you have any other income sources other than tree and forests related?

□ 0=No, please go to question 8.5.43　　□ 1=Yes, please go to the question no. 8.5.42

8.5.42. If yes, what is the approximate monthly income of your HH from other sources?....................BDT/month

HH dependence on trees and forests for energy (Including buying of fuel wood energy)

8.5.43. What types of energy are used by your HH for cooking and heating?	8.5.44. How much is consumed each month by your HH? (quantity/month)	8.5.45. Does your HH buy any energy for own and other purposes? □ 0= No, go to question 8.5.47 □ 1 = Yes, please proceed question no. 8.5.46	8.5.46. How much money is required per month for buying the HH energy? (BDT/month)
□1=Firewood	................kg		
□2=Leaves and other tree biomass	................kg		

□3 =Charcoal	................kg		
□4=Briquette	................kg		
□5= LP Gas	.... kg		
□6=Kerosene	................kg		
□7=Biogas	................kg		
□8. Cow dung	................kg		
□9. Agricultural residues	................kg		
□96=Other (specify)	.... unit		

8.5.47. If your HH uses firewood, leaves and other tree biomass (options 1 and 2 in answer to 8.5.43) for cooking and heating, how dependent you are on them?

□ 1= Use them very little, □ 2 = Use them about half the time, □ 3= Use them most of the time, □ 4 = Always use them

8.6. MEASURING PROGRESS TOWARDS SFM

Conflicts related to trees and forests

8.6.1. Have you observed any conflicts related to land and forest tenure in your union in past 12 months?
□ 0=No (*then please ask question 8.6.5*)
□ 1=Yes (*then please ask questions 8.6.2- 8.6.4*)

8.6.2. What are the conflicts usually associated with?	8.6.3. What is the frequency of conflicts? □*1=1 time/yr* □*2=2 times/yr* □*3=3 times/yr* □*4=4 times/yr* □*5= < 4 times/yr*	8.6.4. Who normally solves the conflicts? *0=Nobody solves, conflicts remained unsolved* *1=Community leader* *2=BFD officials* *3=Local administration* *4=Police* *5=Local government* *96=Other (please specify)*
□1= Land ownership		
□2= Access to tree and forest resources		
□3= Forest land boundary related disputes		
□96= Other (please specify ----)		

Compliance with laws and regulations related to forests and tree resources

8.6.5. Have you observed any penalties for violation of forest-related rules in past 12 months?
□0=No (*then please ask question 8.6.9*)
□1=Yes (*then please ask questions 8.6.6-8.6.8*)

8.6.6. In your observation, what are the common penalties in your union?	8.6.7. In your opinion, what is the overall level of forest law enforcement in your union?	8.6.8. Who ensures law enforcement?
□1=Fine □2=Permanent exclusion from resource use/collection □3= Jail term □96=Other (please specify-----)	□0= No law enforcement □1=Very Weak □2=Weak □3=Moderately strong □4=Strong □5= Very strong □99=Don't know	□0=Nobody □1=Community leader □2=BFD officials □3=Local administration □4=Police □5=Local government □96=Other (please specify ----)

Participation in tree and forest management

8.6.9. Are there any community or co-managed forests in your union?	□0=No (*then please ask question 8.6.16*) □1=Yes (*then please ask question 8.6.10*)
8.6.10. Is your HH members involved with community or co-management of forests?	□0=No (*then please ask question 8.6.12*) □1=Yes (*then please ask question 8.6.11*)
8.6.11. How many years has your HH been involved in community or co-management of forests?	………….. years
8.6.12. How far is the community or co-management of forests from your house?	……………Kilometre (km)
8.6.13. Have you got any benefits through involving in tree and forest management/co-management?	□0=No (*then please ask question 8.6.16*) □1=Yes (*then please ask question 8.6.14*)
8.6.14. If yes, what types of benefits did you receive?	□1=Cash, please ask question no. 8.6.15 □2=Trainings □3=Exposure visits □4= In kind support on alternative income generation activities □96=Others (please specify) ….
8.6.15. How much money does your HH received since involved in community or co-management forests?	……………………BDT

Social forestry-managed by forest department

8.6.16. Are you involved with any social forestry activities?	□ 0=No (*then please ask question 8.6.21* □ 1=Yes (*then please continue to ask questions from 8.6.17*)
8.6.17. How many years have you been involved in social forestry activities?	………….. years
8.6.18. How far is the community or co-management of forests from your house?	……………Kilometre (km)

8.6.19. What types of benefits did you receive from social forestry?	□1=Cash, go to the question no 8.6.20 □2=Dead leaves and branches □96=Others (please specify) ---
8.6.20. How much money does your HH received since involved in social forestry?	……………. BDT

Support from the Bangladesh Forest Department

8.6.21. Has your HH received any tree seedlings from the Bangladesh Forest Department in past 12 months?

□0=No (*then please ask question 8.6.25*)
□1=Yes (*then please continue to ask questions from 8.6.22*)

8.6.22. How many species of seedlings did your HH receive?	8.6.23. How many seedlings did your HH receive?	8.6.24. What kind of other supports (apart from seedlings) does your HH need to increase tree cover on your land and outside? *(please mention three most important ones)*	8.6.25. Have you bought any seedlings with your own money? 0=No, go to 8.6.27 1=Yes, go to 8.6.26	8.6.26. How much money was spent for buying tree seedlings for plantation?
		1------------- 2------------- 3-------------		………BDT/yr

Progress towards achieving SFM - Support for tree and forest management

8.6.27. Does your HH receive support from any organization for tree and forest management?	□0=No (*then please ask question 8.7.1*) □1=Yes (*then please ask questions 8.6.28 – 8.6.30*)
8.6.28. What types of supports does your HH usually receive?	□1=Training on raising nursery □2=Training on tree planting □3=Training on tree and forest management □4=Training in forest product collection and processing □5=Free seedlings □6=Cash □96=Other (please specify-------)
8.6.29. Which organization does your HH receive support from?	□1=Forest Department □2= Local Government (Pourashava, upazila and union parishad) □3= Other government organizations □4= Private sector □96=Other (please specify------)
8.6.30. What are the three most important tree species you prefer for planting?	1---------------------------- 2---------------------------- 3----------------------------

8.7 OWNERSHIP

HH land ownership

8.7.1. Does your HH have any lands?
□ 0=No, please proceed to the question 8.8.1
□ 1=Yes, please proceed the question no.8.7.2-8.7.3

8.7.2. What types of lands does your HH have?	8.7.3. What is the approximate size of the land? (decima)
□1= Own homestead land	
□2= Leased or rented homestead land	
□3= Own tree and bamboo plantations outside of homestead land	
□4= Leased or rented tree and bamboo plantations outside of homestead land	
□5= Own agricultural land	
□6= Leased, rented or share-cropped agricultrual land	
□96=Other (please specify-------)	

8.8 ZONE SPECIFIC QUESTIONS

The Sundarbans and Coastal Zone: <u>Protective functions of trees and forests</u> – value of forests and plantations against protection from tropical storms

For control HHs *(i.e. that are located in areas where there are no Sundarbans or coastal plantations), please ask questions 8.8.1, 8.8.3 and 8.8.4*

For treatment *HHs (i.e. that are located in areas where there are the Sundarbans or coastal plantations), please ask questions 8.8.2 - 8.8.4.*

8.8.1. Where are HH's assets (e.g. house, agricultural land, livestock, trees, fish ponds and shrimp farm) located in relation to the coast line?
□ 1= Within one kilometre (km), □ 2 = Between one and two km □3= Between two and three km, □ 4 = Beyond three km (*to be verified in the land cover class map*)

8.8.2. Where are HH's assets (e.g. house, agricultural land, livestock, trees, fish ponds and shrimp farm) located in relation to the inner boundary of the Sundarbans or coastal plantations?
□ 1= Within one kilometre (km), □ 2 = Between one and two km □3= Between two and three km, □ 4 = Beyond three km (*to be verified in the land cover class map*)

8.8.3. Are there any cyclones that damages your HH assets in the past 10 years?
□ 0=No, please proceed to the question 8.8.6
□ 1=Yes, please proceed the question no.8.8.4.-8.8.5

8.8.4. What damages/losses have occurred to HH's assets due to cyclone?	8.8.5. What was the economic cost of damages/losses due to cyclone in last 10 years?
□ 0=No loss or damages	
□1=Loss of/damage to house	....................BDT
□2=Loss of agricultural crops	.... BDT
□3=Loss of/damage to trees	....................BDT
□4=Loss of/damage to fish ponds	....................BDT
□5=Loss of /damage to shrimp farms	....................BDT
□6=Loss of livestock	....................BDT
□96= Other losses or damages	....................BDT

Sundarbans zone: <u>Economics and livelihood</u> – Pass permit for collection of primary forest products

8.8.6. Do you need to pass permit for collecting primary forest products?

□0= No   □ 1 = Yes, (*then please ask questions 8.8.7 - 8.8.9*)

8.8.7. For which products that your HH require pass permit? *(If tree and forest product codes are not mentioned in the manual please write the name of products)*	8.8.8. How many times have you collected products in past 12 months? (times/yr)	8.8.9. How much is the pass permit per trip?
1.---------------		---------BDT/trip

2.--------------		--------BDT/trip
3.--------------		--------BDT/trip
4.--------------		--------BDT/trip
5.--------------		--------BDT/trip
6.--------------		--------BDT/trip
7.--------------		--------BDT/trip
8.--------------		--------BDT/trip
9.--------------		--------BDT/trip
10. --------------		--------BDT/trip

Hill, Coastal and Sundarbans Zone: <u>Economics and livelihood</u> - value of potable water

8.8.10. What are the sources of your HH's drinking water?	8.8.11. Where are the locations of your water sources? *(please note down the code of*	8.8.12. How many members of your HH collect water? (no. of member)	8.8.13. How many months a year (in total) do they collect? (months/yr)	8.8.14. How many days a month do they collect? (days/month)	8.8.15. On average, how many hours a day does HH members spend in collection? (hours/day)	8.8.16. On average, how much water does HH members collect per day? (liters/day)	8.8.17. If any of your HH member need to transport the collected water home, how much is the transportation cost? (BDT/month)

	land cover class code according to manual or map)					
□ 1= Seepage water from hills						
□ 2 = Natural streams						
□ 3= Wells						
□ 4 = Ponds						
□ 5 = Rain water						
□ 96=Other sources (Please specify)						

8.8.18. Do you need to treat the collected water before drinking?

□0=No □ 1=Yes (*then please ask questions 8.8.19 - 8.8.20*)

8.8.19. How does your HH treat the collected water?	8.8.20. What is the cost of treatment, if any?
□ 0= No money is required	
□ 1= Natural means (e.g. using stones and sand)	........................BDT/10 litre
□ 2=Using chemicals	........................BDT/10 litre
□ 96=By other means (Please specify)	........................BDT/10 litre

9. Picture of HH location
Please take a photo of the location of HH, if allowed
9.1. Picture taken: □0=No □ 1=Yes
9.2. Interviewer comments (if any):

9.3. End time of interview (HH:MM):

<u>Reviewed by</u>: Signature: Name: Position: Date:

Annex 11: Community questionnaire

9. NATIONAL SOCIOECONOMIC SURVEY IN FORESTRY: QUESTIONNAIRE FOR COMMUNITY MODULE

9.1 AREA IDENTIFICATION

VARIABLES	CODES								
9.1.1. Community unique number									
9.1.2. Discussion date (DD-MM-YY)									
9.1.3. Division									
9.1.4. District									
9.1.5. Upazila									
9.1.6. Union									
9.1.7. Mauza									
9.1.8. Ward									
9.1.9. Village									
9.1.10. Zone									
9.1.11. Stratum									
9.1.12. Forest division									
9.1.13. Forest range									
9.1.14. Forest beat									
9.1.15. GPS coordinate	Latitude (N)								
	Longitude(E)								
9.1.16. Starting time of discussion (HH:MM)									
9.1.17. Name of moderator									

9.2. INFORMATION OF PARTICIPANTS
(Please limit the number of participants to 10, if possible)

SL#	9.2.1. Name of participants	9.2.2. Age of participants (in years)	9.2.3. Gender of participants

| | | | 1=Male |
| | | | 2=Female |
			3=Third gender
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			

9.3. BIODIVERSITY AND CONSERVATION

9.3.1. Are there any **naturally-grown plant species** that were abundantly available in the past, but rarely seen nowadays in your union?

□ 0=No (*then please ask question 9.3.8*)
□ 1=Yes (*then please ask the question 9.3.2*)
□ 99=Do not know (*then please ask question 9.3.8*)

Plant species

9.3.2. What are the plant species not found abundantly like before in the union? *(Please mention five most important ones)*	9.3.3. Do any members of your community sell any these species or their parts? 0=No, go to question 9.3.7, 1=Yes, go to the question 9.3.4-9.3.6	9.3.4. Where the community people sell the species or their parts? 1=Nearby markets 2=Inside villages 3=Outside villages 96=Others (specify)	9.3.5. What unit is used to measure the quantity of these species or their parts? Unit	9.3.6. What is the price of these species or their parts? Unit/price	9.3.7. What are the main reasons of reduction in number of these species? 1=Land use change 2=Over harvesting 3=Lack of proper management 4=Natural disasters 96= Others (please specify)	Commens (if any)
1.			……………			
2.			……………			
3.			……………			
4.			……………			
5.			……………			

9.3.8. Are there any **animal species** that were abundantly available in the past, but rarely seen nowadays in your union?
□ 0=No (*then please ask question 9.4.1*)
□ 1=Yes (*then please ask the question 9.3.9*)
□ 99=Do not know (*then please ask question 9.4.1*)

Animal species

9.3.9. What are the animal species not found abundantly like before in the union? (Please mention <u>five</u> most important ones)	9.3.10. Do any members of your community sell (after collection) any these species or their parts? 0=No, go to the question 9.3.14 1=Yes, go to the question 9.3.11-9.3.13	9.3.11. Where the community people sell the species or their parts? 1=Nearby markets 2=Inside villages 3=Outside villages 96=Others (specify)	9.3.12. What unit is used to measure the quantity of these species or their parts?	9.3.13. What is the price of these species or their parts?	9.3.14. What are the main reasons of reduction in number of these species? 1=Over hunting 2=Poaching 3= Lack of proper management 4=Loss of habitat 96=Others (please specify--------)	Comments (if any)
1.			................kg			
2.			................kg			
3.			................kg			
4.			................kg			
5.			................kg			

9.4. ECONOMICS AND LIVELIHOOD

Collection and selling of tree and forest products

9.4.1. Do any members of the community collect or income generated from tree and forest products?
□ 0=No (*then please ask question 9.5.1*)
□ 1=Yes (*then please continue from question 9.4.2*)

9.4.2. Which tree and forest products are collected?	9.4.3. Which months of the year do the community members usually collect and sell the tree and forest products? 1=Collection, 2=Selling, 3=Collection/harvesting and sale period are the same)												9.4.4. What is the typical unit of measuring quantity?	9.4.5. What is the unit price of these products?	Notes (e.g., Standard Unit Equivalent)
	Jan	Feb	Mar	April	May	June	July	Aug	Sept	Oct	Nov	Dec			
Materials															
□1=Timber -															
-															
-															
-															
-															
-															
□2=Poles															
□3=Barks															
□4=Bamboo															
□5=Cane															
□6=Lianas and vines															
□7=Brooms															
□8=Thatching materials															
□9=Reeds															
□10=*Nypa* (golpata)															
□11=Bee wax															
□12=Ornamental plants															

□13= Medicinal plants															
□14= Murta/patipata															
□15=Lac															
□16= Tree seedlings															
□17=Fodder															
□18= Seeds															

Energy
□19=Fuelwood
□20=Leaves
□21= Other (Please specify)

Nutrition
□22= Fruits
□23=Bamboo shoots

9.4.2. Which tree and forest products are collected?	9.4.3. Which months of the year do the community members usually collect and sell the tree and forest products? 1=Collection, 2=Selling, 3=Collection/harvesting and sale period are the same)												9.4.4. What is the typical unit of measuring quantity?	9.4.5. What is the unit price of these products?	Notes (e.g., Standard Unit Equivalent)
	Jan	Feb	Mar	April	May	June	July	Aug	Sept	Oct	Nov	Dec			
□24= Mushrooms															
□25= Root tubers															
□26= Other vegetables															
□27= Spices															
□28= Wild meat															
□29= Other animal products															
□30=Fish															
□31=Shrimp															
□32=Shrimp fry															
□33=Crabs															
□34=Honey															

□ 96=Other (please specify----)													
Processed products													
□35= Charcoal													
□36= Wooden furniture													
□37= Wooden agricultural appliances													
□38= Handicrafts													
□39= Ash													
□96= Others (please specify)													

Most important forest and tree products and access

Questions	Cash			Subsistence		
	1st MIP	2nd MIP	3rd MIP	1st MIP	2nd MIP	3rd MIP
9.4.6. What are the three most important tree and forest products (MIP) for the livelihood of the people in the union for cash and/or subsistence? (*If the same product is listed for both cash and subsistence, fill out both columns*)						
9.4.7. From where is these products predominately collected? (*Please note down the code of land cover class according to manual and maps*)						
9.4.8. What is the legal ownership status of the land where this product is predominately collected? *1=Private-Owned by individuals or families* *2=Forest Department* *3=Government- other institutions* *4-Community institutions* *96=Other (please specify)* *99=Unknown*						
9.4.9. How easily can people from this community access this land to collect products? *0= No access* *1=Very easy*						

Questions	Cash			Subsistence		
	1st MIP	2nd MIP	3rd MIP	1st MIP	2nd MIP	3rd MIP
2=Somewhat easy 3=Neither difficult nor easy 4=Somewhat difficult 5=Very difficult						
9.4.10. Do you need a permit to collect these products? 0=No 1=Yes 99= Don't know						
9.4.11. Who are the main collectors of these products? (Chose one in each column) 1=Subsistence-oriented users in this community 2=Small-scale commercial users in this community 3=Large-scale commercial users in this community 4=Subsistence oriented users from outside the community 5=Small-scale commercial users from outside the community 6=Large-scale commercial users from outside the community 96=Other (please specify)						
9.4.12. Who are the primary buyers of these products? (Chose one in column) 1=Subsistence-oriented users in the community 2=Small-scale commercial users in the community 3=Large scale commercial users in the community 4=Subsistence oriented users from outside the community 5=Small-scale commercial users from outside the community 6=Large scale commercial users from outside the community 96=Other (please specify)						
9.4.13. Have the community members experienced any conflicts in relation to collecting these products in last five years? 0=No, (then please proceed to question 9.4.15) 1=Yes, (then please continue from question 9.4.14) 2 =Do not know, (then please proceed to question 9.4.15)						
9.4.14. Which type of conflicts have you experienced? 1= Conflicts with Forest Department 2=Land-use conflicts with community members						

Questions	Cash			Subsistence		
	1st MIP	2nd MIP	3rd MIP	1st MIP	2nd MIP	3rd MIP
3=Land-use conflicts with neighbouring community *4=Conflicts with outsiders* *5= Conflicts with private companies* *96= Other type of conflicts (please specify)*						
9.4.15. What is the gender distribution in collecting these products? *1= Only men/boys harvest the product* *2=Women/girls represent less than 30 % of the harvesters of the product* *3=Women/girls represent between 30 – 70 % of the harvesters of the product* *4=Women/girls represent more than 70 % of the harvesters of the product* *5=Only women/girls harvest the product* *99=Don't know*						
9.4.16. Do children usually participate in collecting these products? *0= Children don't participate* *1=Children represent less than 30% of the collectors* *2=Children represent between 30 - 50% of the collectors* *3= Children represent between 51 - 70% of the collectors* *4=Children represent more than 70% of the collectors* *5=Only children collect these products* *99=Do not know*						
9.4.17. How has availability of these most important products changed over the past ten years (in the area from where they are predominately collected)? *1=No change, (then please ask question 9.5.1)* *2=Decreased, (then please ask question 9.4.18)* *3=Increased, (then please ask question 9.4.19)*						

9.4.18. *If the availability of these products has declined*, what are the main reasons *(If the products are the same for cash and subsistence, but the*	**Reasons (Rank the three most important reasons)**	Rank 1-3	Rank 1-3	Rank 1-3	Rank 1-3	Rank 1-3	Rank 1-3
	1= Increased collection for sale						
	2=Reduced forest area due to small-scale clearing						
	3=Reduced forest area due to large scale clearing						

Questions		Cash			Subsistence		
		1st MIP	2nd MIP	3rd MIP	1st MIP	2nd MIP	3rd MIP
reasons are different, then fill in each column separately).	4=Increased demand from local people for own use						
	5=Increased demand due to more collection from outsiders for own use						
	6=Legal conversion of forests into other uses						
	7=Fire						
	8=Gas exploration						
	9=Heavy human settlement through hill cutting						
	10=Natural disturbances						
	11= Infrastructure development (house, road, bridges and embankment)						
	12=Illegal extraction of forest resources						
	13=Lack of proper management						
	96= Other (*please specify*)						
9.4.19. *If the availability of these products has increased,* what are the reasons? *(If the products are the same for cash and subsistence, but the reasons are different, then fill in each column separately).*	**Reasons (Rank the three most important reasons)**	Rank 1-3	Rank 1-3	Rank 1-3	Rank 1-3	Rank 1-3	Rank 1-3
	1=Increased availability due to better forest management						
	2=Less demand						
	3=Fewer local (community) people collecting for own use						
	4=Fewer outsiders (subsistence users) collecting for own use						
	5=Fewer outsiders (commercial users) collecting/using						
	6=Improved access rights to products						
	7=Exploitation of new forest areas						
	8=Plantation of seedlings through government and non-government institutions						
	9=Natural reasons (e.g. adequate rainfall)						
	10=Co-management						
	96=Other (please *specify*-------)						

9.5. MEASURING PROGRESS TOWARDS SFM
Community benefits from forest and tree related land use and other management programmes

9.5.1. Over the past five years, has your community participated in any programme related to tree and forests?				□0=No, then please proceed to question 9.5.9 □1=Yes, then please continue with question 9.5.2 □99=Don't know, then please proceed to question 9.5.9			
9.5.2. With which of the following elements the programmes were related to? (*Multiple responses are possible*)	9.5.3. Are any of these programmes on-going? □0=No □1=Yes	9.5.4. Has the community received any benefits from these programmes? □0=No □1=Yes, cash payments to some households □2=Yes, other benefits to some households □3=Yes, cash payment to the community as whole □4=Yes, other benefit to the community as whole (for example, a community development project, school classroom, health clinic or other service) 5=, both to households and community □96=Other (please specify)	9.5.5. Who have been implementing these programmes? □1=Government/ public agency □2=International funding agency □3=NGO □96=Other (please specify--------------)	9.5.6. For how many months did the programme continue? number of months	9.5.7. How successful was the programme? □1=Very successful □2=Quite successful □3=More or less successful □4=Quite unsuccessful □5=Not at all successful	9.5.8. If the project failed, mention three ways the failure could have been avoided?
□1=Ecotourism/landscape beauty						
□2=Carbon sequestration/REDD+						
□3=Watershed protection						
□4=Biodiversity conservation						
□5=Payment for use of forest (e.g. from timber or mining companies)						
□6= Forest fire and pest control						
□7=Grazing management						

□8=Permitting access to forests					
□96=Other (please specify)					

Forest management by community members

9.5.9. Is there a forest area that is specifically conserved or protected by the community members?	□0=No, community is not specifically protecting any area □1=Yes, for spiritual, ceremonial or graveyard purposes □2=Yes, for collection of traditional medicine or other specific products collection □3=Yes, for environmental or production sustainability reasons □96=Yes, for other reasons, please specify----- □99= Don't know
9.5.10. What is the area of forests that is managed by the community members?	……. acres
9.5.11. How many years has community members been involved in management of forests?	………years
9.5.12. Are there any customary rules regulating forest and tree use by the members of the community?	□0= None □1=Yes, clear rules exist □2=Yes, but vague/unclear □ 99=Don't know
9.5.13. In your opinion, what are the most serious problems for forest management for the next 5 years?	1. 2. 3.
9.5.13.1. How do you think these problems can be solved?	1. 2. 3.
9.5.14. In your opinion, what opportunities will arise in the next 5 years in relation to forest management?	1. 2. 3.
9.5.14.1. What needs to be done?	1. 2.

	3.
9.5.14.2. Who should be involved?	1. 2. 3.

Illegal activities related to trees and forests

9.5.15. Are there any illegal activities related to tree and forest resources in your union?	□0=No, (then *please continue with question 9.5.20*) □1=Yes, (then *please continue with question 9.5.16-9.5.19*)

9.5.16. What are the most common tree and forest related illegal activities in your union?	9.5.17. What is the severity level of these illegal activities? *1=Very high 2=High 3=Moderate 4=Low 5=Very low*	9.5.18. What is the frequency of each illegal activity in the last year? (Number/yr) *1=1 time 2=2 times 3=3 times 4=4 times 5=>4 times*	9.5.19. Who are responsible for illegal activities in your union? *1=Local people for subsistence 2=Local people for cash 3=Outside people for subsistence 4=Outside people for cash 5=Private companies 96=Others (please specify)* (*Multiple responses are possible*)
□1= Illegal logging			
□2 =Poaching			
□3 =Intentional fire			
□4=Illegal wildlife trading			
□5= Harvest of fuelwood and other products beyond sustainable levels			
□6=Legal conversion of forest land into other uses			
□7=Encroachment			
□8= Illegal extraction of sand and stone			

□96=Other (please specify------------)			

Enforcement of laws related to trees and forests

Questions	Cash			Subsistence		
	1st MIP	2nd MIP	3rd MIP	1st MIP	2nd MIP	3rd MIP
9.5.20. Are there any enforcement of laws (both formal and informal) related to tree and forest resources in your union? 0=No, (*then please ask question 9.5.28*) 1=Yes, (*then please continue to ask question 9.5.21*)						
9.5.21. Who enforces the formal rules on forest and tree use? *1=Community head* *2=Community forest associations/customary institutions* *3=Forest officer (government forest department)* *4=Other government department/regulation (please specify name)* *5=Private land owners* *6=Private company (please specify name)* *96 =Other (please specify)*						
9.5.22. Are there any penalties on those violating the formal rules on forest and tree use in general? 0=No, (*then please ask question 9.5.25*) 1=Yes, (*then please ask question 9.5.23*)						
9.5.23. What are the main types of formal penalties? *1=Fine* *2=Seizure of collected products* *3=Warning* *4=Temporary exclusion from resource use* *5=Permanent exclusion from resource use* *6=Jail term* *96=Other (please specify)*						
9.5.24. Who enforces the informal laws on forest and tree use? *1=Community head* *2=Community forest associations/customary institutions* *3=Forest officer (government forest department* *4=Other government department/regulation (please specify name)* *5=Private land owners*						

Questions	Cash			Subsistence		
	1st MIP	2nd MIP	3rd MIP	1st MIP	2nd MIP	3rd MIP
6=*Private company (please specify name)* 96 =*Other (please specify)*						
9.5.25. Are there any penalties on those violating the informal laws on forest and tree use in general? 0=*No, go to the question no. 9.5.27* 1=*Yes, go to the question no. 9.2.26*						
9.5.26. What are the main type (s) of informal penalties? 1=*Fine* 2=*Seizure of collected products* 3=*Warning* 4=*Temporary exclusion from resource use* 5=*Permanent exclusion from resource use* 96=*Other (please specify)*						
9.5.27. How many violators were given penalties (in total) in your community in the past 12 months?						

Concept of Climate Change

Questions	Particulars
9.5.28. We hear much in the news about how climate change is affecting people in rural communities. Please can you tell us the main signs of climate change that you have observed in your village, if any? Write brief description of climate changes observed In this union:	
9.5.29. Please can you describe the specific ways, if any, that climate change is affecting people in your union?	
9.2.30. Are people in your union taking any steps to combat or protect against these changes?	0=No, please go to the question no, 9.5.31 1=yes, please go to the question no. 9.5.32
9.5.31. If no, please describe the reasons?	
9.5.32. If yes, please describe?	

REDD+ Safeguards

9.5.33. During the making process of any policies related to trees and forests in past five years, was your community consulted?
□0=No, then please ask question 9.5.35
□1=Yes, then please ask question 9.5.34

9.5.34. How many times did consultations happen?
□1=1 time, □2=2 times, □3=3 times, □4=4 times, □5=>4 times

9.5.35. Have you seen the draft/final policy documents that you have been consulted for?
□0=No, then please ask question 9.5.37, □1=Yes, then please ask question 9.5.36

9.5.36. Has the views/concerns of your community been addressed in the policy documents?
□0=No, □1=Yes, □99=Don't know

9.5.37. Is any forest land in your union declared protected by the government in past five years?
□0=No, then please ask question 9.5.39, □1=Yes, then please ask question 9.5.38

9.5.38. Has this declaration restricted the access of your community members to trees and forests products?
□0=No, □1=Yes

9.5.39. Has your community been consulted before declaring the forest land protected?
□0=No, □1=Yes

9.5.40. Is any forest or other land in your union converted to plantation in past five years?
□0=No, □1=Yes, then please ask question 9.5.41

9.5.41. Has your community been consulted before establishing the plantation?
□0=No, □1=Yes

Community survey location

(Please take a photo of the place where the discussion took place, if allowed)

9.5.42. Picture taken: □0=No, □1=Yes

9.5.43. End time of discussion (HH:MM):

Rapporteur by: **Signature:**

Annex 12. List of selected unions according to zones and administrative units

Annex 12.1: List of selected unions/wards in coastal zone in Bangladesh

Zone	Strata	DIV_NAME	DIST_NAME	UPZ_NAME	UNI_NAME	DIV_CODE	DIST_CODE	UPZ_CODE	UNI_CODE
Coastal	Coastal_3	Barisal	Barguna	Amtali	Sonakata	10	1004	100409	10040996
Coastal	Coastal_3	Barisal	Bhola	Burhanuddin	Kutba	10	1009	100921	10092157
Coastal	Coastal_2	Barisal	Bhola	Burhanuddin	Sachra	10	1009	100921	10092176
Coastal	Coastal_4	Barisal	Bhola	Burhanuddin	Ward No-02	10	1009	100921	10092102
Coastal	Coastal_4	Barisal	Bhola	Burhanuddin	Ward No-08	10	1009	100921	10092108
Coastal	Coastal_3	Barisal	Bhola	Char Fasson	Abu Bakarpur	10	1009	100925	10092511
Coastal	Coastal_1	Barisal	Bhola	Char Fasson	Char Madras	10	1009	100925	10092538
Coastal	Coastal_1	Barisal	Bhola	Char Fasson	Hazariganj	10	1009	100925	10092557
Coastal	Coastal_2	Barisal	Bhola	Char Fasson	Jinnaghar	10	1009	100925	10092566
Coastal	Coastal_1	Barisal	Bhola	Char Fasson	Rasul Pur	10	1009	100925	10092588
Coastal	Coastal_4	Barisal	Bhola	Char Fasson	Ward No-01	10	1009	100925	10092501
Coastal	Coastal_4	Barisal	Bhola	Char Fasson	Ward No-04	10	1009	100925	10092504
Coastal	Coastal_4	Barisal	Bhola	Char Fasson	Ward No-06	10	1009	100925	10092506
Coastal	Coastal_4	Barisal	Bhola	Char Fasson	Ward No-08	10	1009	100925	10092508
Coastal	Coastal_3	Barisal	Bhola	Char Fasson	Ward No-09	10	1009	100925	10092509

Zone	Strata	DIV_NAME	DIST_NAME	UPZ_NAME	UNI_NAME	DIV_CODE	DIST_CODE	UPZ_CODE	UNI_CODE
Coastal	Coastal_3	Barisal	Bhola	Daulatkhan	Uttar Joynagar	10	1009	100929	10092976
Coastal	Coastal_3	Barisal	Bhola	Lalmohan	Char Bhuta	10	1009	100954	10095419
Coastal	Coastal_2	Barisal	Bhola	Lalmohan	Dhali Gaurnagar	10	1009	100954	10095428
Coastal	Coastal_3	Barisal	Bhola	Lalmohan	Farazganj	10	1009	100954	10095438
Coastal	Coastal_1	Barisal	Bhola	Lalmohan	Kalma	10	1009	100954	10095447
Coastal	Coastal_2	Barisal	Bhola	Lalmohan	Paschim Char Umed	10	1009	100954	10095470
Coastal	Coastal_4	Barisal	Bhola	Lalmohan	Ward No-03	10	1009	100954	10095403
Coastal	Coastal_4	Barisal	Bhola	Lalmohan	Ward No-06	10	1009	100954	10095406
Coastal	Coastal_4	Barisal	Bhola	Lalmohan	Ward No-08	10	1009	100954	10095408
Coastal	Coastal_3	Barisal	Bhola	Manpura	Dakshin Sakuchia	10	1009	100965	10096521
Coastal	Coastal_1	Barisal	Bhola	Tazumuddin	Bara Malancha	10	1009	100991	10099119
Coastal	Coastal_2	Barisal	Bhola	Tazumuddin	Chandpur	10	1009	100991	10099157
Coastal	Coastal_2	Barisal	Bhola	Tazumuddin	Shambhupur	10	1009	100991	10099185
Coastal	Coastal_1	Chittagong	Chittagong	Anowara	Roypur	20	2015	201504	20150495
Coastal	Coastal_4	Chittagong	Chittagong	Mirsharai	Ward No-02	20	2015	201553	20155312
Coastal	Coastal_1	Chittagong	Chittagong	Pahartali	Ward No-11 (part)	20	2015	201555	20155511
Coastal	Coastal_1	Chittagong	Chittagong	Patenga	Ward No-40	20	2015	201565	20156540

Zone	Strata	DIV_NAME	DIST_NAME	UPZ_NAME	UNI_NAME	DIV_CODE	DIST_CODE	UPZ_CODE	UNI_CODE
Coastal	Coastal_3	Chittagong	Chittagong	Sandwip	Gachhua	20	2015	201578	20157830
Coastal	Coastal_3	Chittagong	Chittagong	Sandwip	Rahmatpur	20	2015	201578	20157885
Coastal	Coastal_2	Chittagong	Chittagong	Sandwip	Santoshpur	20	2015	201578	20157890
Coastal	Coastal_2	Chittagong	Chittagong	Sandwip	Sarikait	20	2015	201578	20157892
Coastal	Coastal_3	Chittagong	Chittagong	Sandwip	Ward No-03	20	2015	201578	20157803
Coastal	Coastal_4	Chittagong	Chittagong	Sandwip	Ward No-05	20	2015	201578	20157805
Coastal	Coastal_3	Chittagong	Chittagong	Sandwip	Ward No-09	20	2015	201578	20157809
Coastal	Coastal_2	Chittagong	Chittagong	Sitakunda	Muradpur	20	2015	201586	20158657
Coastal	Coastal_2	Chittagong	Chittagong	Sitakunda	Sonaichhari	20	2015	201586	20158685
Coastal	Coastal_1	Chittagong	Cox'S Bazar	Kutubdia	Dakshin Dhurung	20	2022	202245	20224540
Coastal	Coastal_1	Chittagong	Cox'S Bazar	Kutubdia	Uttar Dhurung	20	2022	202245	20224581
Coastal	Coastal_1	Chittagong	Cox'S Bazar	Maheshkhali	Matarbari	20	2022	202249	20224971
Coastal	Coastal_1	Chittagong	Cox'S Bazar	Pekua	Magnama	20	2022	202256	20225678
Coastal	Coastal_2	Chittagong	Feni	Sonagazi	Sonagazi	20	2030	203094	20309485
Coastal	Coastal_4	Chittagong	Feni	Sonagazi	Ward No-03	20	2030	203094	20309403
Coastal	Coastal_4	Chittagong	Feni	Sonagazi	Ward No-08	20	2030	203094	20309408
Coastal	Coastal_1	Chittagong	Lakshmipur	Ramgati	Char Abdullah	20	2051	205173	20517315

Zone	Strata	DIV_NAME	DIST_NAME	UPZ_NAME	UNI_NAME	DIV_CODE	DIST_CODE	UPZ_CODE	UNI_CODE
Coastal	Coastal_2	Chittagong	Lakshmipur	Ramgati	Char Algi	20	2051	205173	20517331
Coastal	Coastal_4	Chittagong	Lakshmipur	Ramgati	Ward No-05	20	2051	205173	20517305
Coastal	Coastal_4	Chittagong	Lakshmipur	Ramgati	Ward No-07	20	2051	205173	20517307
Coastal	Coastal_4	Chittagong	Lakshmipur	Ramgati	Ward No-09	20	2051	205173	20517309
Coastal	Coastal_1	Chittagong	Noakhali	Companiganj	Char Elahi	20	2075	207521	20752110
Coastal	Coastal_2	Chittagong	Noakhali	Companiganj	Char Fakira	20	2075	207521	20752111
Coastal	Coastal_1	Chittagong	Noakhali	Hatiya	Chandnandi	20	2075	207536	20753619
Coastal	Coastal_3	Chittagong	Noakhali	Hatiya	Ward No-02	20	2075	207536	20753602
Coastal	Coastal_3	Chittagong	Noakhali	Hatiya	Ward No-03	20	2075	207536	20753603
Coastal	Coastal_3	Chittagong	Noakhali	Hatiya	Ward No-04	20	2075	207536	20753604
Coastal	Coastal_3	Chittagong	Noakhali	Hatiya	Ward No-05	20	2075	207536	20753605
Coastal	Coastal_2	Chittagong	Noakhali	Subarnachar	Char Amanullah	20	2075	207585	20758529
Coastal	Coastal_1	Chittagong	Noakhali	Subarnachar	Char Wapda	20	2075	207585	20758537
Coastal	Coastal_2	Chittagong	Noakhali	Subarnachar	Purba Char Bata	20	2075	207585	20758547
Coastal	Coastal_2	Barisal	Patuakhali	Galachipa	Char Kajal	10	1078	107857	10785739

Annex 12.2: List of selected unions/wards in Sal zone in Bangladesh

Zone	strata	DIV_NAME	DIST_NAME	UPZ_NAME	UNI_NAME	DIV_CODE	DIST_CODE	UPZ_CODE	UNI_CODE
Sal	Sal_1	Dhaka	Dhaka	Badda	Bhatara	30	3026	302604	30260457
Sal	Sal_1	Dhaka	Dhaka	Gendaria	Ward No-81	30	3026	302624	30262481
Sal	Sal_1	Dhaka	Dhaka	Hazaribagh	Ward No-48(part)	30	3026	302628	30262848
Sal	Sal_1	Dhaka	Dhaka	Jatrabari	Ward No-86	30	3026	302629	30262986
Sal	Sal_1	Dhaka	Dhaka	Kadamtali	Ward No-89	30	3026	302632	30263289
Sal	Sal_1	Dhaka	Dhaka	Kamrangir Char	Sultanganj	30	3026	302634	30263451
Sal	Sal_1	Dhaka	Dhaka	Khilgaon	Nasirabad	30	3026	302636	30263685
Sal	Sal_1	Dhaka	Dhaka	Kotwali	Ward No-73	30	3026	302640	30264073
Sal	Sal_1	Dhaka	Dhaka	Mirpur	Ward No-07 (part)	30	3026	302648	30264807
Sal	Sal_1	Dhaka	Dhaka	Mirpur	Ward No-13	30	3026	302648	30264813
Sal	Sal_1	Dhaka	Dhaka	Mirpur	Ward No-14 (part)	30	3026	302648	30264814
Sal	Sal_1	Dhaka	Dhaka	Motijheel	Ward No-33	30	3026	302654	30265433
Sal	Sal_1	Dhaka	Dhaka	Motijheel	Ward No-34	30	3026	302654	30265434
Sal	Sal_1	Dhaka	Dhaka	Ramna	Ward No-54	30	3026	302666	30266654
Sal	Sal_1	Dhaka	Dhaka	Ramna	Ward No-55	30	3026	302666	30266655
Sal	Sal_1	Dhaka	Dhaka	Sabujbagh	Ward No-27	30	3026	302668	30266827

Zone	strata	DIV_NAME	DIST_NAME	UPZ_NAME	UNI_NAME	DIV_CODE	DIST_CODE	UPZ_CODE	UNI_CODE
Sal	Sal_2	Chittagong	Brahamanbaria	Akhaura	Mogra	20	2012	201202	20120285
Sal	Sal_2	Dhaka	Dhaka	Darus Salam	Ward No-10	30	3026	302611	30261110
Sal	Sal_2	Dhaka	Dhaka	Demra	Matuail (part)	30	3026	302612	30261280
Sal	Sal_2	Dhaka	Dhaka	Hazaribagh	Ward No-46 (part)	30	3026	302628	30262846
Sal	Sal_2	Dhaka	Dhaka	Khilgaon	Dakshingaon (part)	30	3026	302636	30263660
Sal	Sal_2	Dhaka	Dhaka	Mirpur	Ward No-12	30	3026	302648	30264812
Sal	Sal_2	Dhaka	Dhaka	Savar	Pathalia	30	3026	302672	30267272
Sal	Sal_2	Dhaka	Dhaka	Savar	Ward No-03	30	3026	302672	30267203
Sal	Sal_2	Rangpur	Dinajpur	Fulbari	Eluary	55	5527	552738	55273847
Sal	Sal_2	Rangpur	Dinajpur	Fulbari	Kazihal	55	5527	552738	55273866
Sal	Sal_2	Dhaka	Gazipur	Gazipur Sadar	Basan	30	3033	303330	30333023
Sal	Sal_2	Dhaka	Gazipur	Gazipur Sadar	Mirzapur	30	3033	303330	30333067
Sal	Sal_2	Mymensingh	Jamalpur	Jamalpur Sadar	Banshchara	35	3539	353936	35393613
Sal	Sal_2	Dhaka	Narayanganj	Rupganj	Kayet Para	30	3067	306768	30676855
Sal	Sal_2	Dhaka	Tangail	Ghatail	Dhala Para	30	3093	309328	30932834
Sal	Sal_2	Dhaka	Tangail	Ghatail	Rasulpur	30	3093	309328	30932886

Zone	strata	DIV_NAME	DIST_NAME	UPZ_NAME	UNI_NAME	DIV_CODE	DIST_CODE	UPZ_CODE	UNI_CODE
Sal	Sal_3	Chittagong	Brahamanbaria	Akhaura	Maniand	20	2012	201202	20120276
Sal	Sal_3	Dhaka	Gazipur	Gazipur Sadar	Gazipur Cant.	30	3033	303330	30333098
Sal	Sal_3	Dhaka	Gazipur	Kaliakair	Boali	30	3033	303332	30333219
Sal	Sal_3	Dhaka	Gazipur	Kaliakair	Mouchak	30	3033	303332	30333266
Sal	Sal_3	Dhaka	Gazipur	Kaliakair	Ward No-07	30	3033	303332	30333207
Sal	Sal_3	Dhaka	Gazipur	Kaliganj	Bahadursadi	30	3033	303334	30333415
Sal	Sal_3	Dhaka	Gazipur	Kaliganj	Jamalpur	30	3033	303334	30333460
Sal	Sal_3	Dhaka	Gazipur	Kapasia	Kapasia	30	3033	303336	30333643
Sal	Sal_3	Dhaka	Gazipur	Sreepur	Ward No-03	30	3033	303386	30338603
Sal	Sal_3	Mymensingh	Mymensingh	Bhaluka	Meduary	35	3561	356113	35611377
Sal	Sal_3	Mymensingh	Mymensingh	Bhaluka	Rajai	35	3561	356113	35611386
Sal	Sal_3	Mymensingh	Mymensingh	Fulbaria	Enayetpur	35	3561	356120	35612041
Sal	Sal_3	Mymensingh	Mymensingh	Gaffargaon	Tengaba	35	3561	356122	35612288
Sal	Sal_3	Dhaka	Narayanganj	Rupganj	Mura Para	30	3067	306768	30676863
Sal	Sal_3	Dhaka	Tangail	Ghatail	Sandhanpur	30	3093	309328	30932894
Sal	Sal_3	Dhaka	Tangail	Sakhipur	Kakrajan	30	3093	309385	30938567

Zone	strata	DIV_NAME	DIST_NAME	UPZ_NAME	UNI_NAME	DIV_CODE	DIST_CODE	UPZ_CODE	UNI_CODE
Sal	Sal_4	Chittagong	Brahamanbaria	Akhaura	Uttar Akhaura	20	2012	201202	20120290
Sal	Sal_4	Chittagong	Brahamanbaria	Akhaura	Ward No-01	20	2012	201202	20120201
Sal	Sal_4	Chittagong	Brahamanbaria	Akhaura	Ward No-08	20	2012	201202	20120208
Sal	Sal_4	Dhaka	Dhaka	Biman Bandar	Dakshinkhan(part)	30	3026	302606	30260638
Sal	Sal_4	Dhaka	Gazipur	Gazipur Sadar	Ward No-02	30	3033	303330	30333002
Sal	Sal_4	Dhaka	Gazipur	Gazipur Sadar	Ward No-08	30	3033	303330	30333008
Sal	Sal_4	Dhaka	Gazipur	Kaliakair	Ward No-05	30	3033	303332	30333205
Sal	Sal_4	Dhaka	Gazipur	Kaliganj	Moktarpur	30	3033	303334	30333494
Sal	Sal_4	Dhaka	Gazipur	Kaliganj	Ward No-08	30	3033	303334	30333408
Sal	Sal_4	Mymensingh	Mymensingh	Bhaluka	Ward No-07	35	3561	356113	35611307
Sal	Sal_4	Dhaka	Narayanganj	Rupganj	Ward No-02	30	3067	306768	30676802
Sal	Sal_4	Dhaka	Narayanganj	Rupganj	Ward No-09	30	3067	306768	30676809
Sal	Sal_4	Dhaka	Narsingdi	Palash	Ward No-01	30	3068	306863	30686301
Sal	Sal_4	Dhaka	Narsingdi	Palash	Ward No-03	30	3068	306863	30686303
Sal	Sal_4	Dhaka	Narsingdi	Palash	Ward No-07	30	3068	306863	30686307
Sal	Sal_4	Dhaka	Tangail	Sakhipur	Ward No-02	30	3093	309385	30938502

Annex 12.3: List of selected unions/wards in Hill zone in Bangladesh

Zone	Strata	DIV_NAME	DIST_NAME	UPZ_NAME	UNI_NAME	DIV_CODE	DIST_CODE	UPZ_CODE	UNI_CODE
Hill	Hill_1	Chittagong	Chittagong	Banshkhali	Pukuria	20	2015	201508	20150869
Hill	Hill_1	Chittagong	Chittagong	Lohagara	Chunati	20	2015	201547	20154732
Hill	Hill_1	Chittagong	Chittagong	Rangunia	Hosnabad	20	2015	201570	20157025
Hill	Hill_1	Chittagong	Cox'S Bazar	Chakaria	Dulahazara	20	2022	202216	20221633
Hill	Hill_1	Chittagong	Cox'S Bazar	Chakaria	Harbang	20	2022	202216	20221650
Hill	Hill_1	Chittagong	Cox'S Bazar	Chakaria	Kakhara	20	2022	202216	20221655
Hill	Hill_1	Chittagong	Cox'S Bazar	Cox'S Bazar Sadar	Islamabad	20	2022	202224	20222442
Hill	Hill_1	Sylhet	Habiganj	Bahubal	Bhadeshwar	60	6036	603605	60360523

Zone	Strata	DIV_NAME	DIST_NAME	UPZ_NAME	UNI_NAME	DIV_CODE	DIST_CODE	UPZ_CODE	UNI_CODE
Hill	Hill_1	Sylhet	Habiganj	Chunarughat	Paik Para	60	6036	603626	6036265 7
Hill	Hill_1	Sylhet	Habiganj	Madhabpur	Noapara	60	6036	603671	6036718 6
Hill	Hill_1	Chittagong	Khagrachhari	Matiranga	Tubalchhari	20	2046	204670	2046707 6
Hill	Hill_1	Sylhet	Maulvibazar	Kulaura	Joychandi	60	6058	605865	6058654 1
Hill	Hill_1	Sylhet	Maulvibazar	Kulaura	Tilagaon	60	6058	605865	6058659 5
Hill	Hill_1	Sylhet	Maulvibazar	Rajnagar	Munshi Bazar	60	6058	605880	6058804 2
Hill	Hill_1	Chittagong	Rangamati	Baghai Chhari	Kedarmara	20	2084	208407	2084074 7
Hill	Hill_1	Chittagong	Rangamati	Langadu	Bagachatar	20	2084	208458	2084584 0
Hill	Hill_2	Chittagong	Bandarban	Naikhongchhari	Naikhongchhari	20	2003	200373	2003737 6
Hill	Hill_2	Chittagong	Chittagong	Banshkhali	Bailchhari	20	2015	201508	2015081 2
Hill	Hill_2	Chittagong	Chittagong	Mirsharai	Karerhat	20	2015	201553	2015533 5
Hill	Hill_2	Chittagong	Chittagong	Patiya	Haidgaon	20	2015	201561	2015614 2
Hill	Hill_2	Chittagong	Chittagong	Satkania	Bazalia	20	2015	201582	2015822 1
Hill	Hill_2	Chittagong	Cox'S Bazar	Ramu	Garjania	20	2022	202266	2022661 9
Hill	Hill_2	Chittagong	Khagrachhari	Mahalchhari	Mahalchhari	20	2046	204665	2046653 1
Hill	Hill_2	Chittagong	Khagrachhari	Mahalchhari	Maschhari	20	2046	204665	2046654 7

Zone	Strata	DIV_NAME	DIST_NAME	UPZ_NAME	UNI_NAME	DIV_CODE	DIST_CODE	UPZ_CODE	UNI_CODE
Hill	Hill_2	Sylhet	Maulvibazar	Juri	Purba Juri	60	6058	605835	6058356 7
Hill	Hill_2	Sylhet	Maulvibazar	Kamalganj	Madhabpur	60	6058	605856	6058564 7
Hill	Hill_2	Sylhet	Maulvibazar	Kulaura	Baramchal	60	6058	605865	6058651 1
Hill	Hill_2	Sylhet	Maulvibazar	Kulaura	Kulaura	60	6058	605865	6058656 5
Hill	Hill_2	Chittagong	Rangamati	Kawkhali (Betbunia)	Ghagra	20	2084	208425	2084255 7
Hill	Hill_2	Chittagong	Rangamati	Langadu	Kalapakurjya	20	2084	208458	2084586 0
Hill	Hill_2	Chittagong	Rangamati	Langadu	Mayanimukh	20	2084	208458	2084588 1
Hill	Hill_2	Sylhet	Sylhet	Jaintiapur	Chiknagul	60	6091	609153	6091532 9
Hill	Hill_3	Chittagong	Bandarban	Alikadam	Chokhyong	20	2003	200304	2003046 3
Hill	Hill_3	Chittagong	Bandarban	Lama	Sarai	20	2003	200351	2003517 9
Hill	Hill_3	Chittagong	Khagrachhari	Dighinala	Kabakhali	20	2046	204643	2046436 3
Hill	Hill_3	Chittagong	Khagrachhari	Khagrachhari Sadar	Kamalchhari	20	2046	204649	2046494 7
Hill	Hill_3	Chittagong	Khagrachhari	Khagrachhari Sadar	Perachhara	20	2046	204649	2046497 5
Hill	Hill_3	Chittagong	Khagrachhari	Mahalchhari	Mubachhari	20	2046	204665	2046656 3
Hill	Hill_3	Chittagong	Khagrachhari	Matiranga	Guimara	20	2046	204670	2046703 5
Hill	Hill_3	Chittagong	Khagrachhari	Matiranga	Matiranga	20	2046	204670	2046705 9

Zone	Strata	DIV_NAME	DIST_NAME	UPZ_NAME	UNI_NAME	DIV_CODE	DIST_CODE	UPZ_CODE	UNI_CODE
Hill	Hill_3	Chittagong	Khagrachhari	Panchhari	Ulta Chari	20	2046	204677	20467789
Hill	Hill_3	Chittagong	Khagrachhari	Ramgarh	Ramgarh	20	2046	204680	20468076
Hill	Hill_3	Chittagong	Rangamati	Barkal	Shublong	20	2084	208421	20842179
Hill	Hill_3	Chittagong	Rangamati	Kaptai	Chandraghona	20	2084	208436	20843619
Hill	Hill_3	Chittagong	Rangamati	Kaptai	Kaptai	20	2084	208436	20843657
Hill	Hill_3	Chittagong	Rangamati	Kawkhali (Betbunia)	Kalampati	20	2084	208425	20842576
Hill	Hill_3	Chittagong	Rangamati	Langadu	Bhasanya Adam	20	2084	208458	20845827
Hill	Hill_3	Chittagong	Rangamati	Naniarchar	Naniarchar	20	2084	208475	20847557
Hill	Hill_4	Chittagong	Bandarban	Bandarban Sadar	Ward No-02	20	2003	200314	20031402
Hill	Hill_4	Chittagong	Bandarban	Bandarban Sadar	Ward No-03	20	2003	200314	20031403
Hill	Hill_4	Chittagong	Bandarban	Lama	Ward No-04	20	2003	200351	20035104
Hill	Hill_4	Chittagong	Bandarban	Ruma	Ghalangya	20	2003	200391	20039119
Hill	Hill_4	Chittagong	Bandarban	Thanchi	Remakry	20	2003	200395	20039538
Hill	Hill_4	Chittagong	Bandarban	Thanchi	Tindu	20	2003	200395	20039576
Hill	Hill_4	Chittagong	Khagrachhari	Lakshmichhari	Barmachhari	20	2046	204661	20466123
Hill	Hill_4	Chittagong	Khagrachhari	Matiranga	Ward No-04	20	2046	204670	20467004

Zone	Strata	DIV_NAME	DIST_NAME	UPZ_NAME	UNI_NAME	DIV_CODE	DIST_CODE	UPZ_CODE	UNI_CODE
Hill	Hill_4	Chittagong	Khagrachhari	Panchhari	Latiban	20	2046	204677	20467738
Hill	Hill_4	Chittagong	Rangamati	Baghai Chhari	Ward No-08	20	2084	208407	20840708
Hill	Hill_4	Chittagong	Rangamati	Barkal	Aima Chhara	20	2084	208421	20842115
Hill	Hill_4	Chittagong	Rangamati	Barkal	Bara Harina	20	2084	208421	20842131
Hill	Hill_4	Chittagong	Rangamati	Belai Chhari	Belai Chhari	20	2084	208429	20842923
Hill	Hill_4	Chittagong	Rangamati	Jurai Chhari	Banjugi Chhara	20	2084	208447	20844719
Hill	Hill_4	Chittagong	Rangamati	Kaptai	Chitmaram	20	2084	208436	20843638
Hill	Hill_4	Chittagong	Rangamati	Rajasthali	Ghila Chhari	20	2084	208478	20847846

Annex 12.4: List of selected unions/wards in Village zone in Bangladesh

Zone	Strata	DIV_NAME	DIST_NAME	UPZ_NAME	UNI_NAME	DIV_CODE	DIST_CODE	UPZ_CODE	UNI_CODE
Villages	Villages_1	Khulna	Bagerhat	Mollahat	Gaola	40	4001	400156	40015647
Villages	Villages_3	Barisal	Barguna	Barguna Sadar	Phuljhury	10	1004	100428	10042857
Villages	Villages_4	Barisal	Barguna	Betagi	Ward No-02	10	1004	100447	10044702
Villages	Villages_3	Barisal	Barisal	Mehendiganj	Bidyanandapur	10	1006	100662	10066231

Zone	Strata	DIV_NAME	DIST_NAME	UPZ_NAME	UNI_NAME	DIV_CODE	DIST_CODE	UPZ_CODE	UNI_CODE
Villages	Villages_4	Rajshahi	Bogra	Adamdighi	Ward No-09	50	5010	501006	50100609
Villages	Villages_1	Rajshahi	Bogra	Nandigram	Nandigram	50	5010	501067	50106773
Villages	Villages_2	Rajshahi	Bogra	Shibganj	Deuli	50	5010	501094	50109431
Villages	Villages_3	Chittagong	Brahamanbaria	Brahmanbaria Sadar	Ward No-01	20	2012	201213	20121301
Villages	Villages_4	Chittagong	Chandpur	Hajiganj	Ward No-04	20	2013	201349	20134904
Villages	Villages_3	Chittagong	Comilla	Barura	Bhabanipur	20	2019	201909	20190925
Villages	Villages_2	Chittagong	Comilla	Burichang	Baksimail	20	2019	201918	20191811
Villages	Villages_1	Chittagong	Cox'S Bazar	Chakaria	Chiringa	20	2022	202216	20221627
Villages	Villages_1	Rangpur	Dinajpur	Birganj	Palashbari	55	5527	552712	55271251
Villages	Villages_2	Dhaka	Faridpur	Alfadanga	Buraich	30	3029	302903	30290331
Villages	Villages_1	Chittagong	Feni	Sonagazi	Nawabpur	20	2030	203094	20309476
Villages	Villages_1	Rangpur	Gaibandha	Gaibandha Sadar	Kamarjani	55	5532	553224	55322451
Villages	Villages_1	Sylhet	Habiganj	Bahubal	Bahubal	60	6036	603605	60360511
Villages	Villages_1	Mymensingh	Jamalpur	Dewanganj	Char Aomkhaoa	35	3539	353915	35391529
Villages	Villages_4	Mymensingh	Jamalpur	Islampur	Ward No-01	35	3539	353929	35392901
Villages	Villages_2	Mymensingh	Jamalpur	Melandaha	Jhaugara	35	3539	353961	35396157

Zone	Strata	DIV_NAME	DIST_NAME	UPZ_NAME	UNI_NAME	DIV_CODE	DIST_CODE	UPZ_CODE	UNI_CODE
Villages	Villages_3	Khulna	Jessore	Manirampur	Bhojgati	40	4041	404161	40416110
Villages	Villages_4	Khulna	Jessore	Manirampur	Ward No-01	40	4041	404161	40416101
Villages	Villages_2	Khulna	Jessore	Sharsha	Kayba	40	4041	404190	40419051
Villages	Villages_1	Khulna	Khulna	Batiaghata	Jalma	40	4047	404712	40471271
Villages	Villages_2	Khulna	Khulna	Khan Jahan Ali	Atra Gilatala	40	4047	404748	40474819
Villages	Villages_4	Dhaka	Kishoreganj	Bajitpur	Ward No-06	30	3048	304806	30480606
Villages	Villages_3	Dhaka	Kishoreganj	Katiadi	Achmita	30	3048	304845	30484513
Villages	Villages_3	Dhaka	Kishoreganj	Kishoreganj Sadar	Maij Khapan	30	3048	304849	30484977
Villages	Villages_4	Dhaka	Kishoreganj	Pakundia	Ward No-06	30	3048	304879	30487906
Villages	Villages_3	Rangpur	Kurigram	Kurigram Sadar	Belgachha	55	5549	554952	55495217
Villages	Villages_2	Rangpur	Kurigram	Phulbari	Kashipur	55	5549	554918	55491854
Villages	Villages_4	Rangpur	Kurigram	Ulipur	Ward No-04	55	5549	554994	55499404
Villages	Villages_4	Khulna	Kushtia	Bheramara	Ward No-04	40	4050	405015	40501504
Villages	Villages_2	Khulna	Kushtia	Kumarkhali	Shelaidaha	40	4050	405071	40507194
Villages	Villages_3	Khulna	Kushtia	Kushtia Sadar	Ward No-09	40	4050	405079	40507909
Villages	Villages_3	Khulna	Magura	Mohammadpur	Digha	40	4055	405566	40556642

Zone	Strata	DIV_NAME	DIST_NAME	UPZ_NAME	UNI_NAME	DIV_CODE	DIST_CODE	UPZ_CODE	UNI_CODE
Villages	Villages_4	Sylhet	Maulvibazar	Barlekha	Ward No-09	60	6058	605814	60581409
Villages	Villages_3	Sylhet	Maulvibazar	Maulvi Bazar Sadar	Chandighat	60	6058	605874	60587421
Villages	Villages_4	Sylhet	Maulvibazar	Sreemangal	Ward No-06	60	6058	605883	60588306
Villages	Villages_1	Dhaka	Munshiganj	Tongibari	Autshahi	30	3059	305994	30599423
Villages	Villages_2	Mymensingh	Mymensingh	Trishal	Trishal	35	3561	356194	35619485
Villages	Villages_1	Rajshahi	Naogaon	Patnitala	Akbarpur	50	5064	506475	50647512
Villages	Villages_1	Dhaka	Narayanganj	Sonargaon	Baidyer Bazar	30	3067	306704	30670424
Villages	Villages_2	Dhaka	Narsingdi	Roypura	Amirganj	30	3068	306864	30686410
Villages	Villages_4	Rajshahi	Natore	Natore Sadar	Ward No-04	50	5069	506963	50696304
Villages	Villages_3	Rangpur	Nilphamari	Saidpur	Ward No-01	55	5573	557385	55738501
Villages	Villages_4	Rajshahi	Pabna	Sujanagar	Ward No-03	50	5076	507683	50768303
Villages	Villages_2	Barisal	Patuakhali	Galachipa	Kalagachhia	10	1078	107857	10785775
Villages	Villages_1	Barisal	Patuakhali	Kala Para	Lalua	10	1078	107866	10786635
Villages	Villages_4	Barisal	Pirojpur	Pirojpur Sadar	Ward No-05	10	1079	107980	10798005
Villages	Villages_2	Rajshahi	Rajshahi	Baghmara	Subhadanga	50	5081	508112	50811294
Villages	Villages_3	Rajshahi	Rajshahi	Durgapur	Ward No-01	50	5081	508131	50813101

Zone	Strata	DIV_NAME	DIST_NAME	UPZ_NAME	UNI_NAME	DIV_CODE	DIST_CODE	UPZ_CODE	UNI_CODE
Villages	Villages_1	Rangpur	Rangpur	Pirganj	Tukuria	55	5585	558576	55857695
Villages	Villages_2	Dhaka	Shariatpur	Gosairhat	Samantasar	30	3086	308636	30863683
Villages	Villages_3	Dhaka	Shariatpur	Shariatpur Sadar	Chandrapur	30	3086	308669	30866928
Villages	Villages_4	Dhaka	Shariatpur	Zanjira	Ward No-05	30	3086	308694	30869405
Villages	Villages_3	Mymensingh	Sherpur	Nakla	Gourdwar	35	3589	358967	35896747
Villages	Villages_4	Mymensingh	Sherpur	Nakla	Ward No-01	35	3589	358967	35896701
Villages	Villages_1	Rajshahi	Sirajganj	Tarash	Baruhas	50	5088	508889	50888910
Villages	Villages_2	Sylhet	Sunamganj	Bishwambarpur	Dakshin Badaghat	60	6090	609018	60901817
Villages	Villages_1	Sylhet	Sunamganj	Derai	Charnar Char	60	6090	609029	60902919
Villages	Villages_2	Sylhet	Sylhet	Balaganj	Purba Pailanpur	60	6091	609108	60910867
Villages	Villages_3	Sylhet	Sylhet	Zakiganj	Kholachhara	60	6091	609194	60919457
Villages	Villages_2	Dhaka	Tangail	Dhanbari	Paiska	30	3093	309325	30932585

Annex 12.5: List of selected unions/wards in Sundarbans zone in Bangladesh

Zone	Strata	DIV_NAME	DIST_NAME	UPZ_NAME	UNI_NAME	DIV_CODE	DIST_CODE	UPZ_CODE	UNI_CODE
Sundarbans	Sundarbans_1	Khulna	Bagerhat	Mongla	Burirdanga	40	4001	400158	40015827
Sundarbans	Sundarbans_1	Khulna	Bagerhat	Mongla	Chandpi	40	4001	400158	40015823
Sundarbans	Sundarbans_1	Khulna	Bagerhat	Mongla	Chila	40	4001	400158	40015829
Sundarbans	Sundarbans_1	Khulna	Bagerhat	Mongla	Mithakhali	40	4001	400158	40015859
Sundarbans	Sundarbans_1	Khulna	Bagerhat	Mongla	Suniltala	40	4001	400158	40015883
Sundarbans	Sundarbans_4	Khulna	Bagerhat	Mongla	Ward No-03	40	4001	400158	40015803
Sundarbans	Sundarbans_2	Khulna	Bagerhat	Morrelganj	Baharbunia	40	4001	400160	40016010
Sundarbans	Sundarbans_3	Khulna	Bagerhat	Morrelganj	Baraikhali	40	4001	400160	40016023
Sundarbans	Sundarbans_2	Khulna	Bagerhat	Morrelganj	Jiudhara	40	4001	400160	40016053
Sundarbans	Sundarbans_3	Khulna	Bagerhat	Morrelganj	Khuolia	40	4001	400160	40016059
Sundarbans	Sundarbans_4	Khulna	Bagerhat	Morrelganj	Morrelganj	40	4001	400160	40016065
Sundarbans	Sundarbans_3	Khulna	Bagerhat	Morrelganj	Nishanbaria	40	4001	400160	40016071
Sundarbans	Sundarbans_3	Khulna	Bagerhat	Rampal	Banshtali	40	4001	400173	40017311
Sundarbans	Sundarbans_2	Khulna	Bagerhat	Rampal	Bhojpatia	40	4001	400173	40017317

Zone	Strata	DIV_NAME	DIST_NAME	UPZ_NAME	UNI_NAME	DIV_CODE	DIST_CODE	UPZ_CODE	UNI_CODE
Sundarbans	Sundarbans_3	Khulna	Bagerhat	Rampal	Malliker Ber	40	4001	400173	4001735 3
Sundarbans	Sundarbans_3	Khulna	Bagerhat	Rampal	Perikhali	40	4001	400173	4001737 1
Sundarbans	Sundarbans_2	Khulna	Bagerhat	Rampal	Rajnagar	40	4001	400173	4001737 7
Sundarbans	Sundarbans_2	Khulna	Bagerhat	Rampal	Rampal	40	4001	400173	4001738 3
Sundarbans	Sundarbans_4	Khulna	Bagerhat	Sarankhola	Dakhin Khali	40	4001	400177	4001777 6
Sundarbans	Sundarbans_3	Khulna	Bagerhat	Sarankhola	Dhansagar	40	4001	400177	4001771 9
Sundarbans	Sundarbans_3	Khulna	Bagerhat	Sarankhola	Khontakata	40	4001	400177	4001773 8
Sundarbans	Sundarbans_3	Khulna	Bagerhat	Sarankhola	Royenda	40	4001	400177	4001775 7
Sundarbans	Sundarbans_3	Barisal	Barguna	Barguna Sadar	Naltona	10	1004	100428	1004289 5
Sundarbans	Sundarbans_3	Barisal	Barguna	Patharghata	Kakchira	10	1004	100485	1004852 3
Sundarbans	Sundarbans_3	Barisal	Barguna	Patharghata	Kalmegha	10	1004	100485	1004853 5
Sundarbans	Sundarbans_4	Barisal	Barguna	Patharghata	Kanthaltali	10	1004	100485	1004854 7
Sundarbans	Sundarbans_4	Barisal	Barguna	Patharghata	Nachna Para	10	1004	100485	1004855 9
Sundarbans	Sundarbans_3	Barisal	Barguna	Patharghata	Patharghata	10	1004	100485	1004857 1
Sundarbans	Sundarbans_4	Barisal	Barguna	Patharghata	Raihanpur	10	1004	100485	1004858 3
Sundarbans	Sundarbans_4	Barisal	Barguna	Patharghata	Ward No-02	10	1004	100485	1004850 2

Zone	Strata	DIV_NAME	DIST_NAME	UPZ_NAME	UNI_NAME	DIV_CODE	DIST_CODE	UPZ_CODE	UNI_CODE
Sundarbans	Sundarbans_4	Barisal	Barguna	Patharghata	Ward No-04	10	1004	100485	10048504
Sundarbans	Sundarbans_4	Barisal	Barguna	Patharghata	Ward No-05	10	1004	100485	10048505
Sundarbans	Sundarbans_4	Barisal	Barguna	Patharghata	Ward No-06	10	1004	100485	10048506
Sundarbans	Sundarbans_4	Barisal	Barguna	Patharghata	Ward No-07	10	1004	100485	10048507
Sundarbans	Sundarbans_4	Barisal	Barguna	Patharghata	Ward No-08	10	1004	100485	10048508
Sundarbans	Sundarbans_2	Khulna	Khulna	Dacope	Bajua	40	4047	404717	40471710
Sundarbans	Sundarbans_2	Khulna	Khulna	Dacope	Banishanta	40	4047	404717	40471713
Sundarbans	Sundarbans_2	Khulna	Khulna	Dacope	Kailasganj	40	4047	404717	40471752
Sundarbans	Sundarbans_1	Khulna	Khulna	Dacope	Pankhali	40	4047	404717	40471769
Sundarbans	Sundarbans_1	Khulna	Khulna	Dacope	Sutarkhali	40	4047	404717	40471773
Sundarbans	Sundarbans_1	Khulna	Khulna	Dacope	Tildanga	40	4047	404717	40471784
Sundarbans	Sundarbans_2	Khulna	Khulna	Koyra	Amadi	40	4047	404753	40475310
Sundarbans	Sundarbans_1	Khulna	Khulna	Koyra	Koyra	40	4047	404753	40475355
Sundarbans	Sundarbans_1	Khulna	Khulna	Koyra	Maharajpur	40	4047	404753	40475372
Sundarbans	Sundarbans_1	Khulna	Khulna	Koyra	Maheshwaripur	40	4047	404753	40475378
Sundarbans	Sundarbans_2	Khulna	Khulna	Koyra	Uttar Bedkashi	40	4047	404753	40475394

Zone	Strata	DIV_NAME	DIST_NAME	UPZ_NAME	UNI_NAME	DIV_CODE	DIST_CODE	UPZ_CODE	UNI_CODE
Sundarbans	Sundarbans_2	Khulna	Khulna	Paikgachha	Chandkhali	40	4047	404764	4047641 6
Sundarbans	Sundarbans_1	Khulna	Khulna	Paikgachha	Garuikhali	40	4047	404764	4047643 9
Sundarbans	Sundarbans_4	Barisal	Pirojpur	Mathbaria	Amragachhia	10	1079	107958	1079581 5
Sundarbans	Sundarbans_4	Barisal	Pirojpur	Mathbaria	Betmore Rajpara	10	1079	107958	1079582 5
Sundarbans	Sundarbans_3	Barisal	Pirojpur	Mathbaria	Sapleza	10	1079	107958	1079587 7
Sundarbans	Sundarbans_4	Barisal	Pirojpur	Mathbaria	Tikikata	10	1079	107958	1079588 6
Sundarbans	Sundarbans_4	Barisal	Pirojpur	Mathbaria	Ward No-03	10	1079	107958	1079580 3
Sundarbans	Sundarbans_2	Khulna	Satkhira	Assasuni	Anulia	40	4087	408704	4087041 5
Sundarbans	Sundarbans_3	Khulna	Satkhira	Assasuni	Khajra	40	4087	408704	4087046 0
Sundarbans	Sundarbans_2	Khulna	Satkhira	Assasuni	Pratap Nagar	40	4087	408704	4087047 7
Sundarbans	Sundarbans_1	Khulna	Satkhira	Shyamnaga r	Atulia	40	4087	408786	4087861 1
Sundarbans	Sundarbans_2	Khulna	Satkhira	Shyamnaga r	Buri Goalini	40	4087	408786	4087862 3
Sundarbans	Sundarbans_1	Khulna	Satkhira	Shyamnaga r	Gabura	40	4087	408786	4087863 1
Sundarbans	Sundarbans_2	Khulna	Satkhira	Shyamnaga r	Ishwaripur	40	4087	408786	4087863 9
Sundarbans	Sundarbans_3	Khulna	Satkhira	Shyamnaga r	Kashimari	40	4087	408786	4087865 5
Sundarbans	Sundarbans_1	Khulna	Satkhira	Shyamnaga r	Munshiganj	40	4087	408786	4087866 3

Zone	Strata	DIV_NAME	DIST_NAME	UPZ_NAME	UNI_NAME	DIV_CODE	DIST_CODE	UPZ_CODE	UNI_CODE
Sundarbans	Sundarbans_1	Khulna	Satkhira	Shyamnagar	Padma Pukur	40	4087	408786	40878679
Sundarbans	Sundarbans_2	Khulna	Satkhira	Shyamnagar	Shyamnagar	40	4087	408786	40878694