



Proceedings of the training on Bangladesh Forest Inventory



Bangladesh Forest Department
06 – 12 October 2016



The Forest Department of Bangladesh leads actions to improve forest management and conservation, adopting forward thinking, innovative approaches in its management of approximately 1.5 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 and provides information in support of the UN REDD programme aimed at Reducing Emissions from Deforestation and Forest Degradation (REDD+). 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 process are collaboration between several national and international institutions and stakeholders. National partners from multiple government departments and agencies assist in providing a nationally 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 the development of technical and financial resources that will assist in institutionalising the process.

The results will allow the Forest Department to provide regular, updated information about the status of trees and forests for a multitude of purposes including for assessment of role of trees for firewood, medicines, timber, climate change mitigation.

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Disclaimer

This report is designed to reflect the activities and progress related to the project GCP/GD/058/USAID “Strengthening National Forest Inventory and Satellite Forest Monitoring System in support of REDD+ in Bangladesh”. This report is not authoritative information sources – it does not reflect the official position of the supporting international agencies including USAID or FAO and should not be used for official purposes. Should readers find any errors in the document or would like to provide comments for improving its quality they are encouraged to contact one of above contacts.

Executive Summary

Forest inventory has been designed under a project titled “Strengthening National Forest Inventory and Satellite Land Monitoring System in support of REDD+ in Bangladesh (2015-2018)” of Bangladesh Forest Department. Training on Bangladesh Forest Inventory was organised at BRAC CDM, Gazipur on October 2016 to start the implementation. The objective of the training was to train the Field Crews, QA/QC Teams and Supervisors of Forest Department to collect data on trees and forests of the country.

Altogether 85 officials of Forest Department were attended in the training. The training course was designed for 9 days including class room and field training. The topics covered by the presentations are the sections of Bangladesh Forest Inventory (BFI) manual, QA/QC manual, Soil manual, tree species identification manual in class room training. They are the followings:

- Overview of the BFI manual
- BFI design & plot Data Collection from different zone
- Subplot Measurements
- Field data collection using Field Forms and Open Foris
- Review and operation of field equipment & maintenance
- Land Feature data collection
- Measurement of tree and sapling attributes
- Seedling Measurements
- Bamboo Measurements
- Soil, litter and down wood sampling
- Specimen collection botanical identification

Field training covered the hands on training for laying out the plot for all kinds of data collection as of the manuals.

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1. Introduction

The Forest Department of Bangladesh leads actions to improve forest management and conservation, adopting forward thinking, innovative approaches in its management of approximately 1.5 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 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 process also supports climate change mitigation and implementation of REDD+.

The methodology for the Bangladesh Forest Inventory is explained in Field Instructions for the National Inventory of Bangladesh prepared with support from USFS/ SilvaCarbon, FAO and Universities. The manual explains field personnel in how to locate and measure field plots and document the field procedures, methods, and codes used in the inventory. It is complemented by other manuals for the Land Cover Classification System (LCCS) (Jalal, Iqbal et al. 2016), the manual for the use of the GPS (Costello 2015), the manual for the soil component under preparation by SRDI (Sidik 2016).

Nine day training was designed to train the Forest Department Officials for the implementation of Bangladesh Forest Inventory. Chief Conservator of Forest Mr. Md Yunus Ali was inaugurated the training. After the inauguration Mr. Zaheer Iqbal presented the objectives of Bangladesh Forest Inventory, Dr. Laskar Maqsudur Rahman presented the context of Planning and organisation of BFI, Mr. Baktiar Nur Siddiqui explained the way the field crews should behave in the field during data collection. Mr. Hossain Mohammad Nishad was



Figure 1: Inaugural session trainings.

presented the components of the BFI manual that followed the class room training. Members of the Field Crews, QA/ QC Teams and Supervisors were attended in the training.

2. Objectives

The objective of the trainings was to ensure that the staffs involved in the implementation of the Bangladesh Forest Inventory have the necessary skills to collect and transfer the accurate information and data for the biophysical assessment of trees and forests in Bangladesh.

The specific objectives of the training are:

- To provide specific thematic trainings on the various biophysical measurements considered by the Bangladesh Forest inventory to allow a full comprehension;
- To provide specific trainings for the different staff involved in the Bangladesh Forest Inventory considering their responsibility;

- To ensure the comprehension of the theoretical and practical elements through theoretical courses and practical exercises in the field;

3. Summary of the Training

Trainees attended the Training of Trainer (ToT) course were served as the resource person of this training (Falgoonee 2016). Among the 85 participants 13 field crew teams, 5 QA/QC teams and 2 supervisors were attended in the training. Nine days training were designed to provide

- Orientation on field equipment: half day orientation on field equipments which was the follow up of equipment training (Akhter 2016) ;
- Class room training: two days trainings about the field inventory manual covering all the topic on field data collection;
- Field training: practical training on the manual for field data collection. The field training was conducted in Sal forest.

3.1 Orientation on the equipment's

At the first day afternoon, participants divided into 6 groups and briefed by the resource persons about the equipment's for using in data collection. All the groups practised the equipments in the premises of BRAC CDM are shown below. They will be used in field data collection for measuring the tree height, distance, bearing, canopy cover, slope percentage etc.



Figure 2: Densitometer



Figure 3: Compass



Figure 4: Suunto Clinometer:



Figure 5:
Rangefinder/Hypsometer



Figure 6: Distance Measuring
Equipment (DME)



Figure 7: Global Positioning
System (GPS)

Below pictures are showing the activities of the participants for using the equipments.



Figure 8: Practicing the equipment at BRAC CDM

3.2 Class Room Training

Class room training covered the presentations on different sections of Bangladesh Forest inventory manual for data collection. The presentations delivered in the training are compiled for archiving (Falgonee 2016). The titles of the presentations are the followings:

3.2.1 Overview of the manuals

This presentation was described the different elements of the BFI and QA/QC manual. In brief

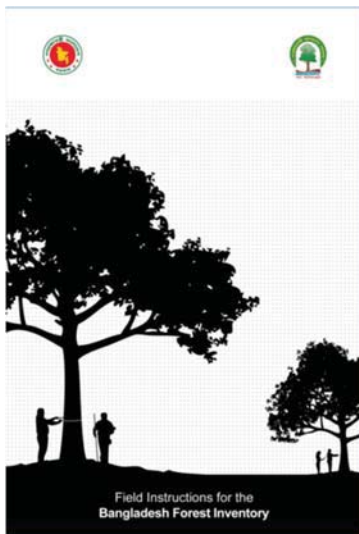


Figure 9: BFI Manual

- BFI manual is structured in 15 sections (Each section of the manual begins with a general overview of the data elements to be collected and provides necessary background to prepare field crews for data collection)
 - *Sections 1-6 are about general topics*
 - Plot design, planning, equipment etc.
 - Sections 7-14 describe specific data collection attributes and process
 - Section 15 is the Appendix
 - Includes definitions and Field forms
- The table of contents is useful as a quick reference guide to the form
- The paragraph number is referenced in both the Open Foris forms and the paper forms
- Appendices

QA/QC manual is designed to:

- Provide routine and consistent checks to ensure data integrity, correctness, and completeness;
- Identify and address errors and omissions;
- Document and archive inventory material and record all QC activities.

3.2.2 Plot design for data collection in different zone

This presentation presented the inventory design. Data collection of different bio-physical variables of different element is based on the sampling design developed for different zones Figure 10 (Akhter 2016, BFD 2016). Two different kinds of design have been developed for Bangladesh Forest Inventory. Figure 11 (A) is showing the design for Sal, Hill, Coastal and Village zone and Figure 11 (B) is showing the design for Sundarban zone. Definition of plots and subplots for this inventory are as follows:

Plot - refers to the entire cluster of five nested subplots in the Sal, Village, Hill and Coastal zones and three nested subplots in Sundarban zone.

Subplot - consists of Large, Medium and Small plots, referred as L, M and S plots respectively.

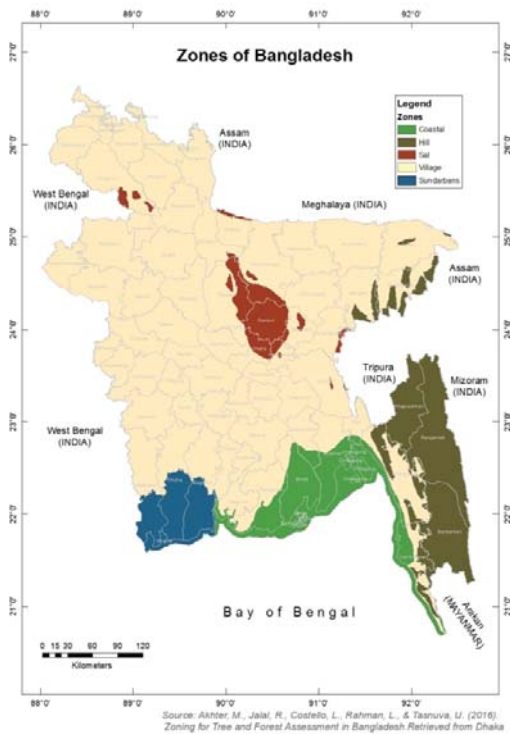


Figure 10: Zones for Inventory

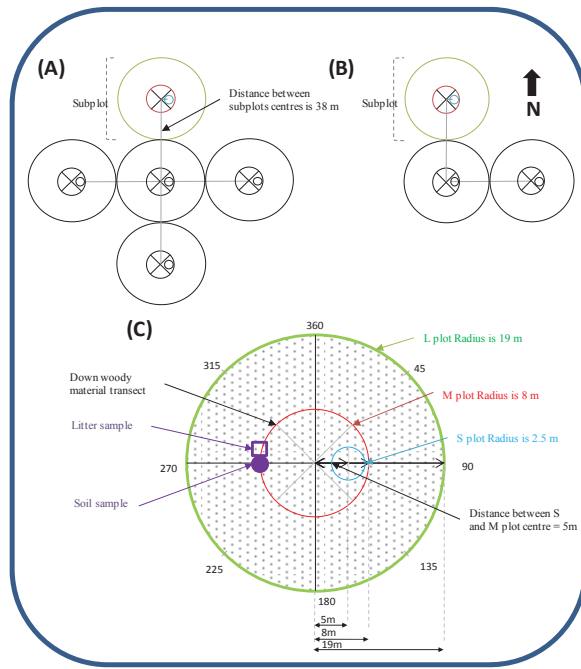


Figure 11: Plot Diagram (A) for Sal, Hill, Coastal and Village zones, (B) Sundarbans zones and (C) Subplot structure

3.2.3 Development of Field Forms & OpenForis Forms for data collection

A detailed presentation was delivered describing the procedures for data collection. FAO's OpenForis tool was used to develop forms for data collection using TAB. At the same time hard copy forms will be used for doing plot sketch and land feature proportioning. As a backup hard copy field forms is also developed for using in field for data collection.

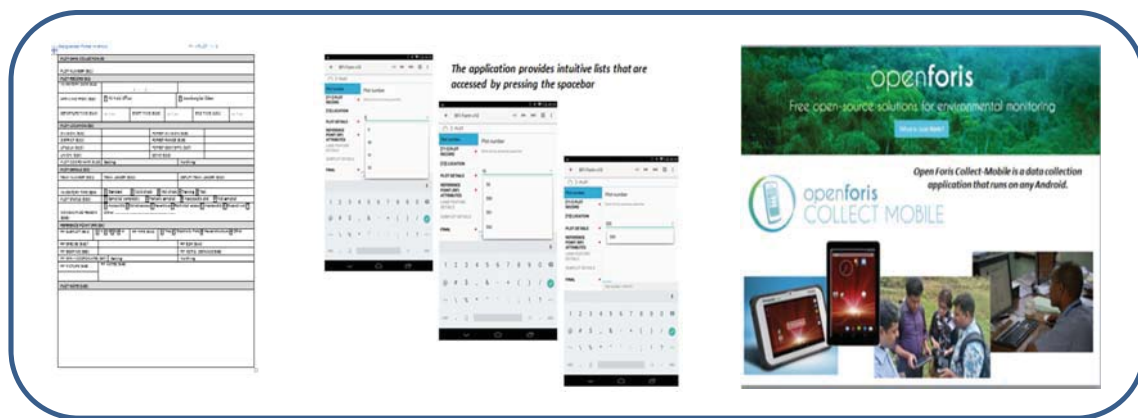


Figure 12: The field forms and open foris forms developed for field data collection

3.2.4 Plot data collection

Presentation on plot data collection described in detail data collection at plot level (Figure 13), they are:

- Plot details
- Administrative location
- Crew details
- Plot status
- Number of land features
- Plot access sketch
- Reference point

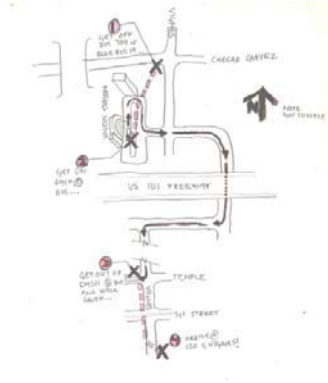
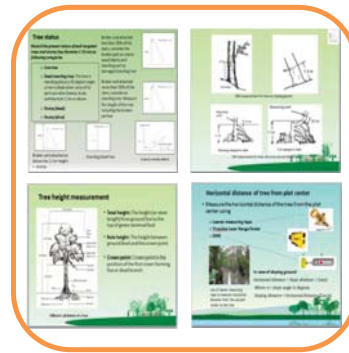


Figure 13: plot sketch including other information

3.2.5 Data collection for Tree and Sapling

Presentations on data collection for different variables of tree and sapling explained the methods to measure and collect data on:

- Status
- Species
- Measurement of tree bearing from plot center
- Horizontal distance of tree from plot center
- Diameter and height of stumps
- height measurement
- Crown position
- Damage
- Damage severity
- Decay class



3.2.6 Data collection for Seedling and Shrubs

This presentation included

Seedling

- Definition of 'seedling' as per BFI manual
- Where (L/M/S plots) to measure/ count the seedlings?
- How to measure/ count the seedlings?
- Identifying and recording the seedling species

Shrubs

- Definition of Shrub
- How to measure



3.2.7 Data collection for Bamboo

Presentation on data collection for bamboo described the followings:

- Clump Record Number
- Bamboo Land Feature
- Bamboo Bearing
- Bamboo Horizontal Distance
- Bamboo Length Measurement
- Bamboo Diameter
- Bamboo Stem Number



3.2.8 Data collection for Land features

This presentation discussed the detail data recording on:

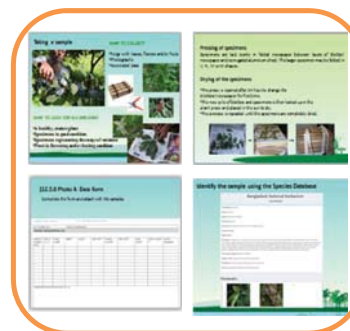


- Recognition of land feature types
- Describing land feature and objects
- Land and feature data collection
- Number of land feature
- Land feature status
- Land features variables
- Land feature object description
- Subplot land feature proportioning

3.2.9 Data collection for Plant specimen collection:

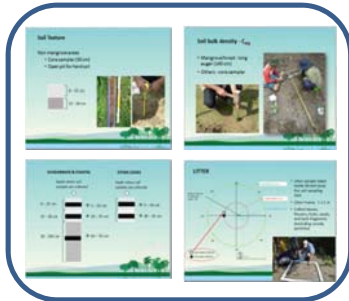
This presentation described the procedures for plant specimen collection;

- Collect Twigs with leaves, flowers and/or fruits; Photographs; Associated data
- Pressing of specimens
- Drying of the specimens
- Identify the sample using the Tree Species Database Application
- Identify the sample using the Species Database



3.2.10 Data collection for Soil and Litter

This presentation described the details on sampling designs and procedures for soil, litter and dead wood material collection. The respective topic was:



Soil

- Soil sampling strategy
- Soil information
- soil condition
- Soil Texture
- Soil bulk density – Corg

Litter

- Litter Frame
- Collect leaves, flowers, fruits, seeds, and bark fragments

Down Wood

- Dead wood coarse and fine

3.2.11 Operation of field equipment & maintenance

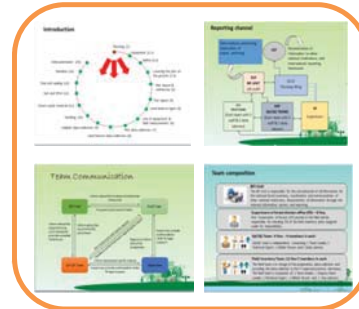
Equipment should be properly maintained and handled carefully. The presentation on the operation of field equipment and maintenance was covered the proper use of equipment's for data collection and maintenance.

- Correct use of instruments and proper data recording are key indicators of a good inventory work
- The team leader is responsible for the preparation and maintenance of the equipment
- equipment should be tagged and well marked
- Check the condition of the equipment before going to the field
- Proper care and maintenance of the equipment must be ensured
- Several ecosystems particularly mangroves are extremely harsh on equipment
- All equipment should be cleaned with fresh water wiped with cloth and dried after every day's use in the field
- This is especially important for steel equipment with screw-on threads; these must be unscrewed and rinsed every day
- Some instruments need battery, so after completing daily works the battery should be removed
- When equipment will not be used for an extended period (more than ~3 days), coat the metal parts with a light oil as a protectant
- All instruments should be handled carefully
- Some instruments are water resistant but not water proof, so if we work in rain then after work the instruments should be dried in sunlight
- Before going to the field all necessary instruments should be checked
- In case of confusion repetition of measurements can be done

3.2.12 BFI operationalization & Planning

This presentation described the operationalization of the whole process during the inventory implementation. It covered the discussion on:

- Field inventory organization
- Team composition
- Field Team responsibilities
- QA/QC Team responsibilities
- Reporting channel
- Team communication
- Administrative procedure
- Travel preparation
- Contact in the field
- Financial support
- Safety
- Field Measurement components
- Target Setting



3.2.13 First Aid training

An Introductory Course on First Aid was provided to the FD officials in this training. It was conducted as an essential part of preparation of the field activity implementation to minimize various risk related to natural events or accidents. First aid training equipped the team with the immediate treatment or care should be given to someone suffering from an injury or illness until more advanced care is accessed. The course included the following contents:

- Introduction to first Aid
- Chocking
- Artificial Respiration (AR)
- Bleeding
- Cardio Pulmonary Resuscitation (CPR)
- Shock
- Fit
- Fainting
- Unconsciousness,
- Wounds and Dressing of Wounds (optional)
- Poisoning
- Bites
- Burn and Electric Injuries
- Bone Fractures
- Transportation of Casualties



3.3 Distribution of equipment to the teams

After the two days class training, 13 field crew teams and 5 QA/QC teams were formed to hand over the equipment to provide field training. The compositions for field crew and QA/QC teams are shown in Table 1 and Table 2 respectively. Table 3 is representing the list of equipments handed over to the groups.

Table 1: Field Crew Composition for BFI

Position	Status
Team Leader (TL)	ACF, 1 nos.
Deputy Team Leader (DTL)	Forester, 1 nos.
Technical Expert (TE)	Forestry graduate, 1 nos.
Skilled Person (SP)	Forest guard, 2 nos.

Table 2: QA/QC Team composition for BFI

Position	Status
Coordinator	DCF/ACF, 1 nos.
Technical Expert	University teacher, 1 nos.
Skilled Person (SP)	Forest guard, 1 nos.

Table 3: List of equipment handed over to each team

Equipment	
Trupulse 200-Hypsometer	Hammer
TruPulse Sx Foliage Filter	DME
Suunto Clinometer	Folder / field
Suunto cover	Zip Plastic bags
Diameter measuring tape	Carpenter tape with metric
Fiberglass tape measure	Rechargeable battery with charger
Electronic balance	Torch light (Rechargeable and metal)
Compass	First Aid Kit
Soil kit	Trekking bags
Tin canister	Red stick
GPS	Thin Ropes (nylon)
Tablets-Panasonic tough pad	Field Form
Machete	Permanent Markers
Tagging /Flagging tape	Wooden Pencils
Vests - Half sleeves (Tan color)	Erasure
Vests - Full sleeves (Tan color)	Sharpener
Cloth bags	Stapler machine
Field notebook waterproof (Yellow cover)	Stapler pin
Metal Ruler (size 12"), Knife	Water bottle (metal-1 Ltr.)



Figure 14: Teams are checking the equipment

3.4 Field training

Field training was designed for five days in Sal Forest. Hands on training on data collection were facilitated through providing resource person in each team. The teams started learning data collection with a subplot at first day. It was not easy for them to learn the measurements for all variables. Gradually the teams learned how to collect data more efficiently for five subplots in a day.

Achievement of the field training was

- Well representation of BFD officers in the teams during the training
- Adequate interaction among the team members on their views before starting the field inventory
- Hands on training for the collection of all BFI variables
- Exclusive learning on the use of all equipments
- Strengthen the Institutionalization process on BFI
- Capacity building for the continuation of BFI in future
- Learn to handle the TAB and data entry in TAB using the Open Foris form
-



Figure 15: Pictures are showing the teams performing different activities in field training

4. Conclusion:

The two days class room training at BRAC CDM, Gazipur and six days field training at Sal Forest was conducted for the implementation of Bangladesh Forest Inventory by Forest Department. Nearly 85 participants including the Conservator of Forests, Deputy Conservator of Forests, Assistant Conservator of Forests, Forester of Forest Department were attended the training. The training covered the following topic:

- Overview of the BFI manual
- BFI design & plot Data Collection from different zone
- Subplot Measurements
- Field data collection using Field Forms
- Field data collection using Open Foris
- Review and operation of field equipment & maintenance
- Land Feature description
- Measurement of tree and sapling attributes
- Seedling Measurements
- Bamboo Measurements
- Soil, litter and down wood sampling
- Specimen collection botanical identification

The inventory is supposed to start by first week of November 2016. The field teams formed during training will perform the BFI. It was beneficial for the Forest Department's officials to work in a group to understand the Bangladesh forest inventory in detail prior to start the field inventory.

Appendix 1. Agenda

Workshop on the development of Allometric Equation

Agenda for the BFI Training at BRAC CDM 2-9 November 2016																											
DATE	TIME																										
2/11/2016	9:00 - 10: 30	BFI training programme Inaugural session Welcome Remarks Address by FAO Address by CCF Tea break																									
	10:30 – 11:00																										
	11:00 -11:30	Objectives of BFI - Zaheer Iqbal																									
	11:30 – 12:00	Planning & organization - Laskar Maqsudur Rahman																									
	12:00 - 12:15	Behavior in the field - Baktiar Nur Siddiqui																									
	12:15 – 1:00	Components of the manual - Hossain Mohammad Nishad																									
	1:00 – 2:00	Lunch & Prayer Break																									
	2:00 – 5:00	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 20%;">Group1</th> <th style="width: 20%;">Group 2</th> <th style="width: 20%;">Group 3</th> <th style="width: 20%;">Group 4</th> <th style="width: 20%;">Group 5</th> </tr> </thead> <tbody> <tr> <td>Equipment</td> <td>Equipment</td> <td>Equipment</td> <td>Equipment</td> <td>Equipment</td> </tr> <tr> <td>Zaheer Iqbal</td> <td>Belayet Hossain</td> <td>Matlubur Rahman</td> <td>Ruhul Mohaiman Chowdhury</td> <td>Yasin Newaz</td> </tr> <tr> <td>Abu Bakar Siddique</td> <td>M. Main Uddin</td> <td>Baktiar Nur Siddiqui</td> <td>Imran Ahmed</td> <td>Saurav Das</td> </tr> <tr> <td></td> <td>Hossain Mohammad Nishad</td> <td>Mariam Akhter</td> <td>Falgoonee Kumar Mondal</td> <td>Md. Salahuddin</td> </tr> </tbody> </table>	Group1	Group 2	Group 3	Group 4	Group 5	Equipment	Equipment	Equipment	Equipment	Equipment	Zaheer Iqbal	Belayet Hossain	Matlubur Rahman	Ruhul Mohaiman Chowdhury	Yasin Newaz	Abu Bakar Siddique	M. Main Uddin	Baktiar Nur Siddiqui	Imran Ahmed	Saurav Das		Hossain Mohammad Nishad	Mariam Akhter	Falgoonee Kumar Mondal	Md. Salahuddin
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Zaheer Iqbal	Belayet Hossain	Matlubur Rahman	Ruhul Mohaiman Chowdhury	Yasin Newaz																							
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	Hossain Mohammad Nishad	Mariam Akhter	Falgoonee Kumar Mondal	Md. Salahuddin																							
8:30 – 9:30	Litter and Soil	Field Forms & OpenForis Forms	Plant Specimen Collection	Field Forms & OpenForis Forms	Plot data collection																						
3/11/2016																											

	Yasin Newaz and Baktiar Nur Siddiqui	Belayet Hossain and Mariam Akhter	Imran Ahmed	Falgoonee Kumar Mondal and Matlubur Rahman	Ruhul Mohaiman Chowdhury and Zaheer Iqbal
9:30 – 10:30	Plant Specimen Collection	Litter and Soil	Plot data collection	Plot data collection	Land features
	Imran Ahmed	Yasin Newaz and Hossain Mohammad Nishad	Saurav Das	Ruhul Mohaiman Chowdhury	Zaheer Iqbal
10:30 – 11:00					
11:00 – 12:00	Plot data collection	Plot data collection	Land features	Land features	Tree, sapling & shrubs
	Yasin Newaz	Ruhul Mohaiman Chowdhury	Rashed Jalal	Zaheer Iqbal	Saurav Das
12:00 – 1:00	Land features	Land features	Tree, sapling & shrubs	Tree, sapling & shrubs	Bamboo & seedlings
	Zaheer Iqbal	Rashed Jalal	Belayet Hossain	Saurav Das	Baktiar Nur Siddiqui
1:00 – 2:00	Lunch & Prayer Break				
2:00 – 3:00	Tree, sapling & shrubs	Plant Specimen Collection	Bamboo & seedlings	Bamboo & seedlings	Litter and Soil
	Belayet Hossain	Imran Ahmed	Hossain Mohammad Nishad	Baktiar Nur Siddiqui	Yasin Newaz
3:00 – 3:45	Bamboo & seedlings	Tree, sapling & shrubs	Field Forms & OpenForis Forms	Litter and Soil	Plant Specimen Collection
	Baktiar Nur Siddiqui	Belayet Hossain	Falgoonee Kumar Mondal and Md. Salahuddin	Matlubur Rahman	Abu Bakar Siddique
3:45 – 4:00	Tea break				
4:00 – 5:00	Field Forms & OpenForis Forms	Bamboo & seedlings	Litter and Soil	Plant Specimen Collection	Field Forms & OpenForis Forms
	Imran Ahmed	Hossain Mohammad Nishad	Matlubur Rahman and Zaheer Iqbal	Abu Bakar Siddique	Falgoonee Kumar Mondal and Md. Salahuddin

	5:00 - 6:00	Distribution of equipment to the teams	Distribution of equipment to the teams	Distribution of equipment to the teams	Distribution of equipment to the teams	Distribution of equipment to the teams	Distribution of equipment to the teams	
4/11/2016	8:30 - 12:30	First aid training red crescent	First aid training red crescent	First aid training red crescent	First aid training red crescent	First aid training red crescent	First aid training red crescent	
	12:30 – 2:30	LUNCH & PRAYER BREAK						
	2:30 – 5:30	One group on equipment and field forms	One group on equipment and field forms	One group on equipment and field forms	One group on equipment and field forms	One group on equipment and field forms	One group on equipment and field forms	One group on equipment and field forms
		Md. Salahuddin	Yasin Newaz	Matlubur Rahman	Ruhul Mohaiman Chowdhury	Abu Bakar Siddique		
		Two groups on Tablet OFC	Two groups on Tablet OFC	Two groups on Tablet OFC	Two groups on Tablet OFC	Two groups on Tablet OFC	Two groups on Tablet OFC	Two groups on Tablet OFC
		Sourav Das	Belayet Hossain	M. Main Uddin	Hossain Mohammad Nishad	Zaheer Iqbal		
	6:00 - 8:00	Imran Ahmed		Falgoonee Kumar Mondal	Mariam Akhter	Baktiar Nur Siddiqui		
		Social event	Social event	Social event	Social event	Social event	Social event	Social event
	5/11/2016	8:30 – 5:00	FIELD EXERCISES	FIELD EXERCISES	FIELD EXERCISES	FIELD EXERCISES	FIELD EXERCISES	FIELD EXERCISES
			Imran Ahmed	Yasin Newaz	Matlubur Rahman	Hossain Mohammad Nishad	Abu Bakar Siddique	
Sourav Das			Belayet Hossain	M. Main Uddin	Mariam Akhter	Baktiar Nur Siddiqui		
Md. Salahuddin				Falgoonee Kumar Mondal	Ruhul Mohaiman Chowdhury	Zaheer Iqbal		
6/11/2016	8:30 – 5:00	FIELD EXERCISES	FIELD EXERCISES	FIELD EXERCISES	FIELD EXERCISES	FIELD EXERCISES	FIELD EXERCISES	
		Imran Ahmed	Yasin Newaz	Matlubur Rahman	Hossain Mohammad Nishad	Abu Bakar Siddique		

Appendix 2. Participant List

LIST OF QA/QC TEAM LEADERS

Sl. No.	Name	QA/QC	Designation	Mobile No.	E-mail
1.	Mr. Md. Salahuddin	Q1	DFO/Chittagong Hill Tracts South Division	01712263767	dfochts@gmail.com
2.	Mr. Imran Ahmed	Q2	DFO/ Social Forest Division, Rajshahi	01761494600	imranforest@live.com
3.	Mr. ANM Yasin Newaz	Q3	Director FSTI/Chittagong	01711447161	newaz.y@gmail.com
4.	Mr. Belayet Hossain	Q4	ACF/Cox' sbazar Forest Division	01712567849	belayet.hossen70@yahoo.com
5.	Mr. Md. Matlubur Rahman	Q5	ACF/Chittagong South Forest Division, Chittagong	01712627900	mrahman10169@gmail.com
6.	Mr. Abu Bakar Siddique	Q6	ACF/Chittagong North Forest Division, Chittagong	01718848759	abakeracf@gmail.com

LIST OF QA/QC DEPUTY TEAM LEADERS

(In absence of University Teachers)

Sl. No.	Name	TEAM	Designation	Mobile No.
1.	Mr. Md. Masud Rana	Q1	Forester/CHT North Forest Division	01532682152
2.	Mr. Saiful Bari	Q2	Forester/USF Division, Rangamati	01843945598
3.	Mr. Shoebur Rahman Khan Sumon	Q3	Forester/USF Division, Rangamati	01820079307
4.	Mr. Md. Nuruzzaman	Q4	Forester/CHT North Forest Division, Rangamati	01828917900
5.	Mr. Mohammed Masudur Rahman	Q5	Forester/CHT North Forest Division, Rangamati	01771505093
6.	Mr. Gazi Shafiul Alam	Q6	Forester/CHT North Forest Division, Rangamati	01813751091

LIST OF SKILLED PERSON FOR QA/QC TEAM
(FOREST GUARD)

Sl No.	Name of FG	TEAM	Date of Birth	Own District	Present Place of Posting	Mobile
	Mr. Absar Uddin Bhuiyan	Q1	10.1.73	B/baria	USF Afforestation Division	01828813575
	Mr. Md. Tariqul Islam	Q2	20.12.82	Narail	Sundarban East Forest Division, Bagerhat	01727305861
	Mr. Abu Sayeem-Md. Anis	Q3	1.1.78	Chandpur	Chittagong North Forest Division	01819887562
	Mr. Md. Jashim Uddin-2	Q4	18.12.85	Patuakhali	Chittagong South Forest Division	01918870482
	Mr. Md. Mamunur Rashid	Q5	20.10.77	Comilla	Chittagong South Forest Division	01845694108
	Mr. Md. Yunus Miah	Q6	4.5.76	Madaripur	Cox'sbazar North Forest Division	01710994643

LIST OF FIELD TEAM LEADERS (TL)
Assistant Conservator of Forests (ACF)/Forester

Sl. No.	Name	TEAM	Designation	Mobile No.
1	Mr. Touhidur Rahman	T1	Forester/Sundarban East Forest Division	01712643117
2	Mr. Abdullah-al-Mamun	T2	ACF/Sylhet Forest Division	01776834219
3	Mr. Md. Sahin Kabir	T3	ACF/Chittagong North Forest Division	01741520030
4	Mr. Md. Anisur Rahman	T4	ACF/Chittagong South Forest Division	01966138236
5	Mr. Mohammad Sohal Rana	T5	ACF/Cox'sbazar South Forest Division	01843712087
6	Mr. Md. Sajjaduzzaman	T6	ACF/Tangail Forest Division	01720658107
7	Mr. AZM Hasanur Rahman	T7	ACF/Sylhet Forest Division	01711944771
8	Dr. Prantosh Chandra Roy	T8	ACF/Social Forest Division, Rangpur	01712224429
9	Mr. Enamul Haq	T9	ACF/Dhaka Forest Division	01711052796
10	Mr. Shyamal Kumer Ghoshe	T10	ACF/Social Forest Division, Dhaka	01711015945

11	Mr. Md. Mahedizzaman	T11	ACF/Sundarban East Forest Div, Bagerhat	01819751874	mahedizzaman.fd@gmail.com
12	Mr. Md. Rafiqzaman Shah	T12	ACF/Social Forest Division, Dinajpur	01711315835	shahrafiq68@gmail.com
13	Mr. Md. Farid Meah	T13	ACF/Coastal Forest Division, Bhola	01761494740	acffarid6@gmail.com

LIST OF FIELD DEPUTY TEAM LEADERS (DTL)

Foresters (Fr)

Sl. No.	Name	TEAM	Designation	Mobile No.
1	Mr. Saiful Islam	T1	Forester /Cox'sbazar South Forest Division, Chittagong	01712815219
2	Mr. Md. Abdul Hamid	T2	Forester/Noakhali Coastal Forest Division	01862008877
3	Mr. Md. Shahinur Rahman	T3	Forester/Bandarban Forest Division	01714867846
4	Mr. Sorowar Jahan	T4	Forester/Chittagong South Forest Division	01979797955
5	Mr. Sazzad Hossain	T5	Forester/Cox'sbazar South Forest Division	01831168150
6	Mr. Dipon Chakma	T6	Forester/Jhum Control Forest Division	01836252909
7	Mr. Md. Rezaul Karim	T7	Forester/Mymensingh Forest Division	01556574858
8	Mr. Rabiul Islam	T8	Forester/Mymensingh Forest Division	01717209012
9	Mr. Uhlamong Chowdhury	T9	Forester/USF Division, Rangamati	01556773953
10	Mr. Md. Mizanur Rahman Chowdhury	T10	Forester/CHT South Forest Division, Rangamati	01819137817
11	Mr. Md. Saidur Rahman	T11	Forester/Social Forest Division, Rajshahi	01712211102
12	Mr. Abu Sufian	T12	Forester/Coastal Forest Division, Patuakhali	01818004862
13	Mr. Mohammad Monirul Islam	T13	Forester/MMNCD, Dhaka	01716582641

LIST OF SKILLED PERSON FOR FIELD TEAM

(FOREST GUARD)

Sl No.	Name of FG	TEAM	Date of Birth	Own District	Present Place of Posting	Mobile
1	Mr. Mohammad Hamid	T1	20.1.85	Chittagong	Coastal Forest Division, Chittagong	01823941482
2	Md. Abdur Rauf	T2	1.1.72	B/baria	Pulpwood Plantation Division Kaptai	01710478089
3	Mr. Md. Bazlur Rashid	T2	1.1.80	Habiganj	Sylhet Forest Division	01714290028
4	Mr. Ahmad Ali	T2	16.9.77	Moulvibazar	Sylhet Forest Division	01712280817
5	Mr. Didarul Islam	T3	30.4.81	Chittagong	Coastal Forest Division, Ctg	01818536911

SI No.	Name of FG	TEAM	Date of Birth	Own District	Present Place of Posting	Mobile
6	Mr. Pravash Chandra Khastogir	T3	25.10.75	Chittagong	Pulpwood Pltn. Division, Kaptai	01813538066
7	Mr. Md. Atiqur Rahman	T4	1.5.86	Barisal	Cox'sbazar South Forest Div	01712599896
8	Mr. Khondkar Mahfuz Ali	T4	27.3.75	Kurigram	Lama Forest Division, Lama	01857273660
9	Mr. Md. Ilias Hossain	T5	15.5.80	Comilla	Cox'sbazar North Forest Div	01731882073
10	Mr. Md. Moslem Uddin	T5	1.6.77	Chittagong	Cox'sbazar South Forest Div	01815499336
11	Md.Nazmul Kabir	T6	15.01.81	Jessore	Social Forest Division, Jessore	01711003445
12	Mr. Md. Tauhidur Rahman	T6	1.3.83	Faridpur	Social Forest Division, Faridpur	01726748451
13	Mr. Md. Monir Hossain	T7	1.10.79	Patuakhali	Jhum Control Division	01536078370
14	Mr. Md. Quamrul Islam	T7	12.1.84	Barguna	Khagrachari Forest Division	01722440541
15	Mr. Shamim Al Mamun	T8	5.1.73	Tangail	CHT North Forest Division	01820328087
16	Mr. Ishtiaq Hassan	T8	1.1.85	Rangpur	Social Forest Division, Rangpur	01712456828
17	Mr. Md. Quamruzzaman	T9	14.6.82	Dhaka	CHT North Forest Division	01828804475
18	Mr. Tapan Kanti Das	T9	10.1.76	Noakhali	CHT South Forest Division	01731756615
19	Mr. Md. Abdul Latif	T10	2.2.84	Feni	Coastal Forest Div, Noakhali	01820088850
20	Mr. Surjya Kumar Singh	T10	15.10.75	Moulvibazar	Bandarban Forest Div, Bandarban	01822484095
21	Mr. Md. Kamal Hossain	T11	8.12.83	Khulna	Sundarban East Forest Div, Bagerhat	01716007244
22	Mr. Syed Habibur Rahman	T11	9.4.84	Jessore	Sundarban West Forest Div, Khulna	01719836507
23	Mr. Md. Zhilon Miah	T12	22.1.84	Barisal	Coastal Forest Division, Patuakhali	01765631001
24	Mr. S.M. Amir Hamza	T12	07.02.71	Khulna	Coastal Forest Division, Bhola	01714730149
25	Mr. Md. Shoeb Khan	T13	15.2.70	Barguna	Coastal Forest Division, Bhola	01714730149
26	Mr.Md. Shahadat Hossain Siddiqui	T13	19.10.83	Comilla	Coastal Forest Division, Noakhali	01981123821

LIST OF SUPERVISORS

Conservator of Forests (CF)

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4.	Ms Raihana Siddiqui	CF, SF, Dhaka	01761494611	raihana003@yahoo.com
5.	Mid. Naser Khan	CF, Coastal, Barisal	01727601217	khan1972bd@yahoo.com
6.	Md. Tariqul Islam	CF, SF, Jessore	01715026557	tarik.forest@gmail.com
7.	Zahir Uddin Ahmed	CF, Khulna	01711581429	zahirfd84@yahoo.com
8.	Md. Rizaul Shikder	CF, SF, Bogra	01711535708	shikder1957@gmail.com

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