

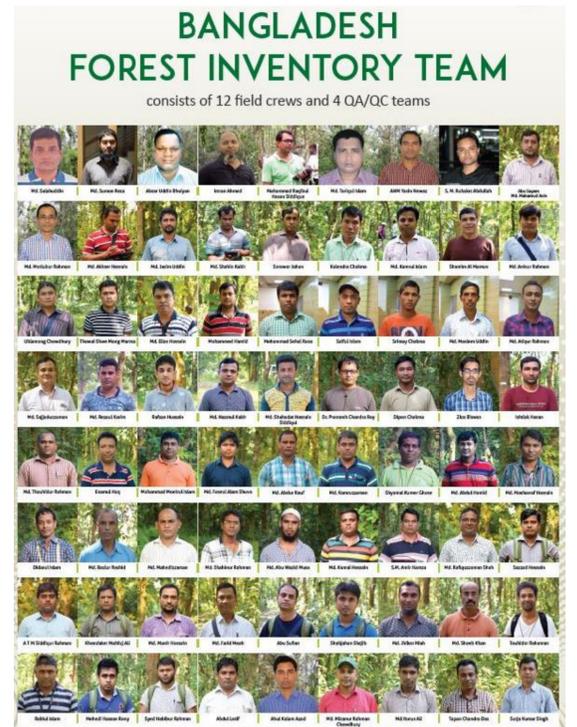


# BANGLADESH FOREST INVENTORY - PLOT ATTRIBUTES MEASUREMENTS

## Measurement of Down Wood, Soil, Litter, Seedlings and Tree Attributes

### INTRODUCTION

The BFI measures 1858 field plots in five zones. Improved methods of field measurements and data recording are being used for collecting forest inventory data. Sixty trained government official staff from Forest Department and Bangladesh Forest Research Institute distributed into 12 teams. In addition, four teams ensure the quality assurance and the quality control involving staff from BFD and University.



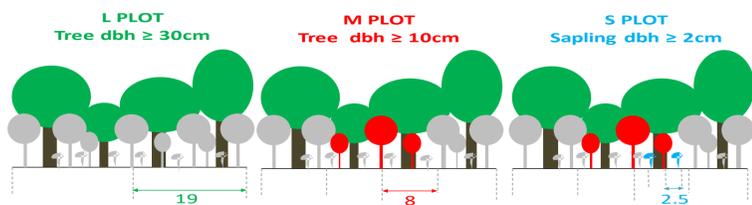
### METHODOLOGY

- A BFI plot consists of five and three sub-plots for Hill, Sal, Village, Coastal and Sundarban zones respectively.
- Each subplot, which radius is 19m, consists of three nested subplots.
- The following measurements are taken at plot level: location, land features etc. and sub-plot level: down wood, soil, litter, seedlings, tree Attributes etc.
- Sub-plot level attributes are being measured in the following order for logistic and practical reasons.

- ❑ **Down Wood** collection along 45°, 135°, 225° and 315° transects
- ❑ **Soil samples** at 8m distance from plot center and 270° using soil auger and core sampler for measuring soil texture and bulk density

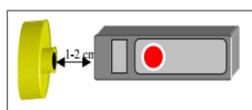


- ❑ **Litter** is collected on 1×1m plot on the north of soil sampling point
- ❑ **Seedling** are counted on S plot species wise

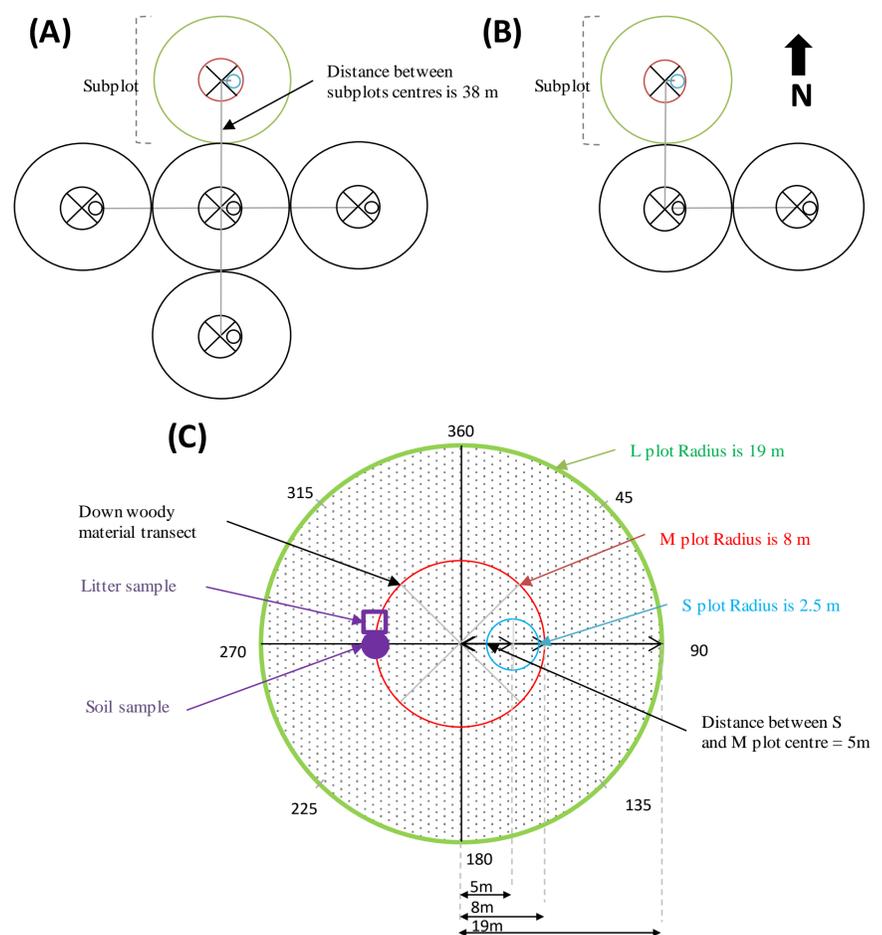


- ❑ **Tree attributes** are measured in L and M plot. For L plots **Trees ≥ 30 cm** and for M plots **Trees ≥ 10cm** and **Bamboo** are being measured

- The tree attributes are-
- ✓ Distance
  - ✓ Bearing
  - ✓ Height
  - ✓ Diameter
  - ✓ Leaf cover
  - ✓ Tree status
  - ✓ Identification of species etc.



- ❑ **Data** are collected using tablets and open foris collect and analysed using R software.
- ❑ **Data** are archived and any modification of the data are documented



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