



Guidelines for conducting Post Plantation Sample Plot Ground Truthing of 2025 Plantation Plots

In continuation to the Office Order No. PLN/MBDA/02751/2024/NF/2583 dt.12th Jan, 2026, following are the guidelines for Conducting Post-Plantation Sample Plot Ground Truthing of 2025 Plantation Plots-

1. Materials Required for Creating 0.1 ha Sample Plots within the Selected Plantation Plot:
 - a) Map of the plantation plot
 - b) 50 m measuring tape
 - c) 6 ropes, each 31.67 m in length
 - d) Paint and brush
 - e) Bamboo stakes (as per the number of sample plots to be created), 4 bamboo stakes per sample plot
 - f) Machete and spade
2. Labor Requirements:
 - a) Two labourers per day can be engaged as helpers for this work.
 - b) A maximum of 2 mandays per day shall be utilized for the task.
3. Procedure to Follow:
 - a. Verify whether the plantation model selected for this area is appropriate.
 - b. Based on the area, determine the number of sample plots to be created:
 - i. For plots up to 1.4 ha: 1 sample plot
 - ii. For plots 1.5 ha to 2.4 ha: 2 sample plots
 - iii. For plots 2.5 ha to 3.4 ha: 3 sample plots and so forth.
 - iv. Beforehand, decide the no. of plants to be counted within the grid/sample plot, taking into consideration the area of the plot i.e. allotted to the surveyor and the model followed for plantation. The process of arriving to the number is multiplying the number of plants that should be planted as per model in 1 ha with the area of the plantation plot
e.g.
 1. if the area of the plot allotted to you is 0.25 ha, the model of plantation is AR, then the calculation for arriving to the number of plants to be counted in the grid/sample plot will be 1111×0.25 ha so, total plant planted shall be 277 nos. in the entire plot, in 0.1 ha sample plot the plant count will be 28
 2. if the area of the plot allotted to you is 0.48 ha, the model of plantation is ANR, then the calculation for arriving to the number of plants to be counted in the grid/sample plot will be 400×0.48 ha so, total plant planted shall be 192 nos. in the entire plot, in 0.1 ha sample plot the plant count will be 19
 3. if the area of the plot allotted to you is 5.3 ha, the model of plantation is AGF, then the calculation for arriving to the number of forestry plants for Model 1-5 and Model 8 & 9 will be 208×5.3 ha so, total plant planted shall be 1,102 nos. in the entire plot, in 0.1 ha sample plot the plant count will be 110
 4. For Model 6 and Model 10, count the forestry plants planted along the boundary by walking along two opposite sides of the boundary. Per ha plants planted as per the model is 100 so in one side of the boundary, plants planted shall be 25 (in case of bamboo plantation 20 plants). Measure height and collar diameter of any randomly selected 10 plants.
 5. For Areca models count boundary plants and also cocoa/blackpaper/agar plants found in the grid/sample plots and height and collar diameter of the randomly selected 10 plants.
 6. In case of AGF, only forestry trees planted and black pepper and cocoa planted shall be considered during counting to access survival.

- c. Use the boundary of the plantation plot as a reference and randomly create sample plots in four directions (North, South, East, and West) using a compass.
- d. First, construct a square by using the ropes on all four sides, inserting bamboo stakes at each corner. Paint the top of each stake to designate this, as a permanent sample plot for future surveys.
- e. Create two diagonal lines with the ropes and take the GPS coordinates of the central intersection point of the sample plot.
- f. Count the number of planted trees within the sample plot.
- g. Verify the accuracy of the layout.
- h. Measure the height and collar diameter of 10 randomly selected plants to assess their health and growth.
- i. Calculate the average height and collar diameter and upload this data into the MIS form.
- j. This process will complete the activity for one sample plot; repeat it for all plots.
- k. From the entered plant count details of the sample plots/grid (this count is considered as survival % of the grid area/sample plot), the system will automatically calculate the average and display the survival percentage for the entire plantation plot.
- l. There will be variations in the number of plants actually planted in the plot due to factors such as topography and canopy density. However, to simplify the monitoring survey process, the prescribed number of plants to be planted per hectare, as per the model and method of plantation (AR-1111/ANR-400/AGF M-1 to 5, 8&9-208/M-6 &10-100, M-13 to 16- Boundary-100 and Blackpepper/Cocoa-686/Agar-208), will be used as the basis for calculating the survival percentage. Later, to finalize the report on the survey's outcomes, the collected data will be normalized using the actual number of plants planted in the plots, sourcing from the MIS data by SPMU.
- m. If the plantation is AGF (agro forestry), then two options in the form will appear
 1. **Plant count along Boundary**
 2. **Plant count within the plot**

In case of model 1-5 & 8&9 only the 2nd option is applicable
 In case of model 6, 10 & 15 1st option is applicable
 In case of model 13, 14 &16 both options are applicable
- n. Additional parameters in case of AR/ANR, such as whether the 3rd weeding is completed/ fire line is done/ fire watcher has been appointed, etc., should also be checked and recorded in the MIS.
- o. Additional parameters in case of AGF, such as whether the intercropping operation was done or not should also be checked and recorded in MIS.



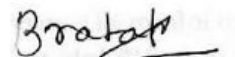
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No. PLN/MBDA/02751/2024/NF/2610

Dated: Shillong, the 10th Feb, 2026

To:

1. All Concerned SPMU Officials, MegLIFE, MBDA
2. All District Project Managers, MegLIFE, MBDA



Technical Specialist, Project Management
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