

**Promoting Sustainable Utilization of Bamboo through
Community Participation in Sustainable Forest Management**

**Bamboo Products Processing and Furniture Making
Training Course, Training No. 6**



**Forest Research Institute
Yezin, Nay Pyi Taw
14 -18 August, 2006**

**Forest Department, Ministry of Forestry
Nay Pyi Taw, Myanmar
and
International Tropical Timber Organization**

*Training Report (PB) ✓
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**Bamboo Products Processing and Furniture Making Training
Course, Training No. 6**

**U Ohn Win
National Project Manager
U Kyaw Win
U Min Thu
Project Staff**

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Preface

With the objectives of disseminating knowledge and methods on forest management, systematic bamboo processing, bamboo extension and marketing, developing own creative thinking and systematic manufacturing practice in the rural community, the Project PD 146/02 Rev.1(I); Promoting Sustainable Utilization on Bamboo through Community Participation in Sustainable Forest Management and Forest Research Institute (FRI), Yezin, the Forest Department organized and conducted the Training Course on Bamboo Product Processing and Furniture Making: Training No (6) from 14th to 18th August, 2006 at the Forest Research Institute, Yezin.

Altogether 21 trainees attended the training. There were 4 from Lelu-aing village, Pyinmana township; 4 from Yedashe village, Kawhmu township; 4 from Ledi village, Paukkaung township; 4 from Metta Foundation; 3 Forest Rangers from each project township; and 2 from Forest Research Institute (Yezin).

The members of the training course committee were U Saw Eh Dah, Chairman, U Ohn Win, National Project Manager, Co Chairman, and U Kyaw Win, Deputy Project Manager, Secretary. Other committee members included Daw Khin May Lwin, Deputy Project Manager, U Tint Khine, U Aung Soe and Daw Mu Mu Aung of the Forest Research Institute (Yezin) and U Min Thu of Myanmar Timber Enterprise.

The opening ceremony was attended by U Than Swe, Director General of the Planning and Statistics Department, U Soe Win Hliang, Director General of the Forest Department, Professors, Deputy Director Generals and Directors under the Ministry of Forestry. Director General U Soe Win Hlaing gave the opening address.

During the 5-day training period, the trainers and the trainees dedicated their time fully to the training course with interest, innovation and enthusiasm.

The closing ceremony was also attended by U Than Swe, Director General of the Planning and Statistics Department, U Soe Win Hliang, Director General of the Forest Department, Professors, Deputy Director Generals and Directors under the Ministry of Forestry. U Soe Win Hlaing gave the closing address and presented certificates to the trainees.

Acknowledgements

The training course committee is thankful to the International Tropical Timber Organization (ITTO) for its financial assistance. We would like to extend our thanks to U Soe Win Hlaing, Director General of the Forest Department for his valuable advice and arrangements for holding the training course. Thanks are also due to Dr. Hwan Ok Ma, Project Director of the Forest Industry, ITTO for his encouragement and strenuous efforts to materialize the entire project including the success of this training course.

Thanks are also due to Ms. Carmelita Bersarlona, International Consultant for bamboo processing and the National Consultants: U Mehm Ko Ko Gyi, U Sein Thet and U Moe Aung for their contributions to the training course.

We owe our deep gratitude to the Resource Persons from Mingaladon Township, Yangon Division and Kyeinsekyer Co., Ltd.

Last, not the least, the organizers are grateful to the trainees from the project areas and the Metta Foundation for their enthusiastic participations, efforts and discipline during the training period.

Training Procedure

Curriculum

The training course consisted of lectures and practical works which included 2 sessions: making of bamboo hats and making of bamboo furniture (bamboo bed). The trainees were divided into two groups, putting particular emphasis on each session. Since the training period was short, there was no time for the groups to interchange.

Bamboo weaving and making of bamboo hat

The curriculum covers slicing, weaving and making of bamboo hats. It also includes selection of bamboo species and appropriate age. Resource persons U Thein Soe and U Aung Thein from Mingalardon conducted the training.

Bamboo furniture making (bamboo bed)

The curriculum also emphasizes on selection of bamboo species and size for making bamboo bed. Resource persons U Myint Oo and U Zaw Zaw Aung from Kyeinsetkyar Co., Ltd. demonstrated all the manufacturing processes of bamboo bed.

Lectures

International consultant, Ms. Carmelita Bersarlona, National Consultants: U Mehm Ko Ko Gyi, U Sein Thet and U Moe Aung, lectured on their respective subjects.

Program of the Training Course

Sunday 13th August 2006

Registration: All trainees reported at the Guest House (2), Forest Research Institute, Yezin, Nay Pyi Taw

Registrar: Daw Mu Mu Aung

Monday 14th August 2006

Opening Ceremony: Venue - Auditorium, (FRI), Yezin

- 9:00 Daw Khaing Hnin Ko, Master of ceremony, declared the opening of the ceremony.
- 9:15 U Soe Win Hlaing, Director General of the Forest Department chaired the ceremony and gave an opening address.
- 9:30 Light refreshments were served

Morning Session

U Kyaw Win, Deputy Project Manager, explained about the training course and hostel disciplines.

Ms. Carmelita Bersarlona, International Consultant for bamboo processing gave an introduction lecture on global trend of bamboo industry.

U Mehm Ko Ko Gyi, National Consultant for Bamboo Forest Management Section, gave lecture on bamboo forest management.

Afternoon Session

U Sein Thet, National Consultant for Bamboo Products Processing Section gave lecture on bamboo product processing.

U Moe Aung, National Consultant for Bamboo Products Extension and Marketing Section presented the situation of bamboo products market in Myanmar and the basic principles of marketing.

Daw Khin May Lwin, Deputy National Project Manager, Head of Bamboo Products Processing Section, lectured on value added bamboo products.

Tuesday 15th August 2006

Morning Session

Ms. Carmelita Bersarlona gave lecture on measuring methods and making jigs (molds) for making bamboo products in rural community.

All the trainees were divided into 2 groups and in each group trainees from rural community, the Metta foundation and the Forest Department were included proportionately. The training was organized into 2 sessions: Session I for bamboo hat making and Session II for bamboo furniture making. Each group was assigned to one session each.

Afternoon Session

All the trainees learned selection of raw materials such as species, age, size, length, diameter and thickness of bamboo suitable for weaving and making furniture; cleaning of bamboo; and utilization of equipment.

Session I: U Thein Soe and U Aung Thein, resource persons from Minagalardon Township, Yangon Division started the training on bamboo weaving and bamboo hat making

Session II: U Myint Oo and U Zaw Zaw Aung conducted the training on basic principles of bamboo furniture making.

Wednesday 16th August 2006

Morning Session

8:30 to 9:30

Ms. Carmelita Bersarlona gave her lecture on calculating labor cost in small and medium bamboo industries.

9:30 to 12:30

The trainees received practical trainings on the following. The trainings were given by U Thein Soe, U Aung Thein, U Myint Oo and U Zaw Zaw Aung respectively.

Group I: Bamboo splitting and vertical slicing method

Group II: Cutting methods for making bamboo furniture

Afternoon Session

13:30 to 16:20

The two groups continued their works.

Thursday 17th August 2006*Morning Session*

8:30 to 9:30

Ms. Carmelita Bersarlona gave lecture on getting timing for manufacturing process.

9:30 to 12:30

The trainees received practical trainings on the following. The trainings were given by U Thein Soe, U Aung Thein, U Myint Oo and U Zaw Zaw Aung respectively.

Group I: Weaving bamboo hats

Group II: Making bamboo bed

Afternoon Session

13:30 to 16:20

The two groups continued their works.

Friday 18th August 2006

8:30 to 9:30

Morning Session

Ms. Carmelita Bersarlona taught basic principles of manufacturing management.

9:30 to 12:30

The two groups finalized and polished their products: bamboo hats and bamboo bed.

Closing Ceremony**Friday 18th August 2006**

14:00

Daw Thida Swe of Forest Research Institute acted as Master of Ceremony.

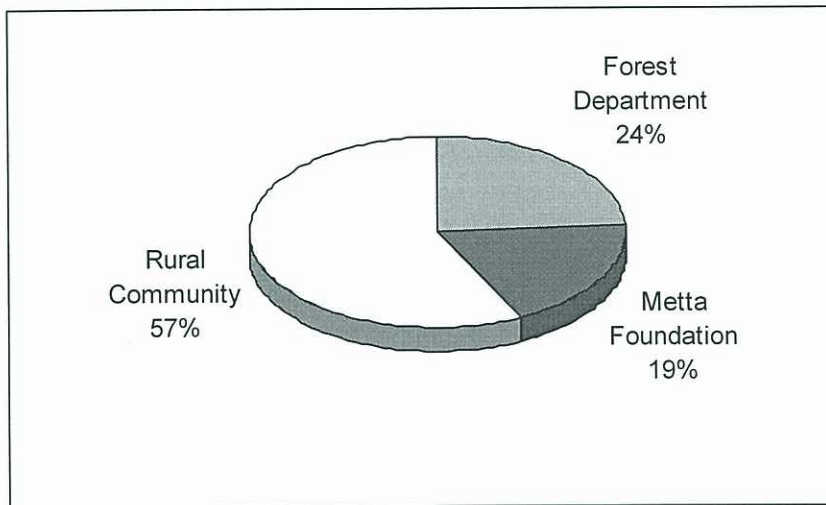
Director Generals of Planning and Statistics Department and Forest Department, Deputy Director Generals, Professors, Directors from the Ministry of Forestry attended the closing ceremony. U Soe Win Hlaing, Director General of Forest Department gave a closing speech and presented certificates to the trainees. All the officials inspected the bamboo products made by the trainees. The training course was very successful since the trainees were very enthusiastic and willing to learn and had the intension to share their knowledge and experience to their peers in the rural community.

Summary of the Training Course

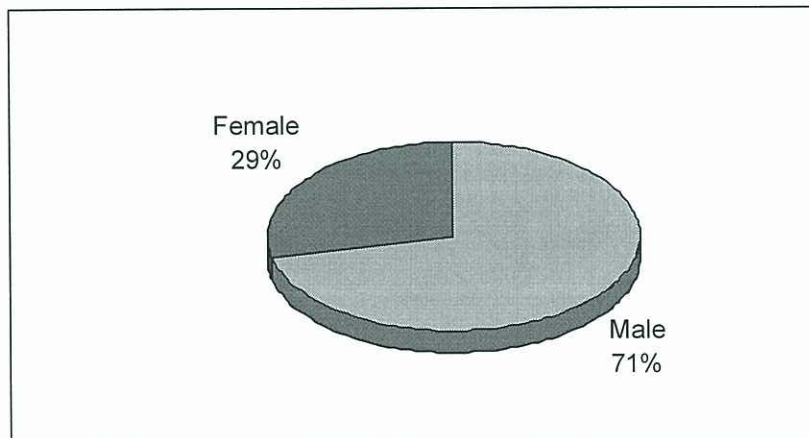
Data on trainees

The total number of trainees was 21. Among them, 5 trainees (24 percent) were from the Forest Department (FD) and 4 trainees (19 percent) were from the Metta Foundation and 12 trainees (57 percent) were from rural community. By gender, 15 trainees (71 percent) were male and 6 trainees (29 percent) were female.

Trainees by Sector



Trainees by Gender



Training Evaluation

Criteria for Evaluation

1. Duration of training course
2. Suitability of content
3. Training procedure
4. Activity learning achievement
5. Availability of training equipment
6. Training periods for practical works
7. Training periods for lectures
8. Time allotment for study tour
9. Application of experience gained from the training
10. Satisfaction of resource persons

Suggestions

It is significant that Bamboo Products Processing and Furniture Making Training Course, Training No (6) recruited trainees from all project sites. The trainees were from the Forest Department, local community and the Metta Development Foundation. It disseminated knowledge and experiences on bamboo forest management, systematic bamboo products processing, and bamboo products marketing. Unlike previous training courses, the Training Course No (6) included the lectures on the situation of bamboo products in international and domestic markets. It is also expected that the trainees will share their knowledge and experiences to their peers for their sustainable benefits. Suggestions were given by the trainees as follows:

1. The duration of the training should be longer in order to provide more details theoretically and practically.
2. There should be more training equipments supported.
3. There should be some monitoring programme to evaluate the development of each trainee.
4. Trainees from local NGOs like Metta Development Foundation should also be invited for subsequent training courses.

List of Trainees

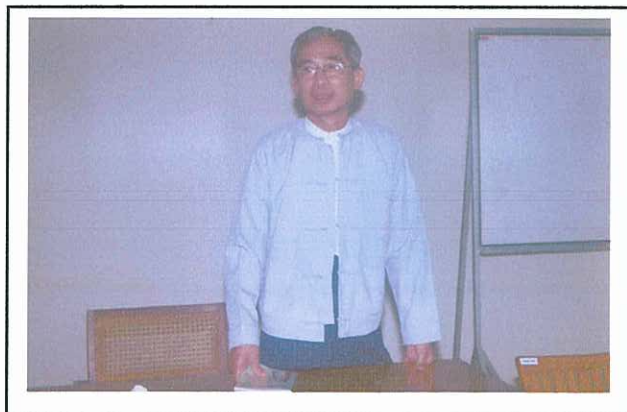
	Name	Township	Sector
1	U Thein Tun	Kawhmu	Forest Department
2	U Thaung Sein	Kawhmu	Rural Community
3	U Win Hlaing	Kawhmu	Rural Community
4	U Sai Zaw Oo	Kawhmu	Rural Community
5	U Naing Lin Aung	Kawhmu	Rural Community
6	U Tin Ohn Kyaw	Paukkaung	Forest Department
7	U Hla Myo Tun	Paukkaung	Rural Community
8	Daw Hnin Ei Mon	Paukkaung	Rural Community
9	U Kyaw Thu Min	Paukkaung	Rural Community
10	Daw Khine Hnin Wai	Paukkaung	Rural Community
11	U Myint Zaw	Yezin	Forest Department
12	U Htay Lin	Yezin	Forest Department
13	U Khin Maung Zaw	Pyinmana	Forest Department
14	Daw Mya Thuzar Lwin	Pyinmana	Rural Community
15	Daw Khin San Lwin	Pyinmana	Rural Community
16	Daw Moe Moe Naing	Pyinmana	Rural Community
17	Daw Sandar Win	Pyinmana	Rural Community
18	U Saw Eh Khe	Loikaw	Metta Foundation
19	U Saw Philip	Loikaw	Metta Foundation
20	U Zaw Nam	Northern Shan State	Metta Foundation
21	U Htam Yaw	Northern Shan State	Metta Foundation

Photos of Activities

Opening Ceremony



Lectures and Training



Closing Ceremony

