

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

**Bamboo Plantation Techniques and Natural Bamboo Forest
Management Training Course
Training No. 5**



**Central Forestry Development Training Center
Hmawbi, Yangon
20 February-25 February, 2006**

**Forest Department, Ministry of Forestry
Yangon, Myanmar**

**and
International Tropical Timber Organization**

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Proceeding No. 5

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Management Training Course
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**U Htun Paw Oo
National Project Manager
U Kyaw Win
U Tint Khaing
Staff**

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PREFACE

With the support of International Tropical Timber Organization (ITTO), Bamboo Plantation Techniques and Natural Bamboo Forest Management Training Course, Training No. (5) was organized by Project PD 146/02 Rev.1 (I) ; Promoting Sustainable Utilization of Bamboo through Community Participation in Sustainable Forest Management. Central Forestry Development Training Center (CFDTC) of the Forest Department, Ministry of Forestry supported the training.

The objectives of the training course were to provide knowledge on bamboo forest management, establishment of community forestry, bamboo products processing, extension and marketing of bamboo products, bamboo propagation and bamboo plantation establishment.

The training course was conducted at the Central Forestry Development Training Center (CFDTC) Hmawbi, Yangon Division from 20th to 25th February 2006. Altogether 22 trainees from the Forest Department and 5 from Metta Development Foundation were recruited.

The training course committee was established on 8th of July, 2004 and chairman and co-chairman were U Saw Eh Dah, Coordinator of the project PD 146/02 Rev.1 (I) and U Htun Paw Oo, National project director of the ITTO Bamboo Project respectively. Members of the committee were U Myint Aung, Principle of CFDTC, Dr. San Win and Daw Khin May Lwin, Deputy Project Managers of the project and the secretary of the committee was U Kyaw Win, Deputy Manager of the Project. Other project staffs included for facilitating the training were U Tint Khaing of the Forest Research Institute (Yezin) and U Min Thu of Myanmar Timber Enterprise.

The opening ceremony was presided by U Htun Paw Oo, Director of the Forest Research Institute, Forest Department, Ministry of Forestry.

All the 27 trainees passed the evaluation standard after 5 days of intensive training. The criteria for the evaluation included standard test table, the interest and proposed bamboo forest management plan.

ACKNOWLEDGEMENTS

The organizers of the training course owed their debt of gratitude to the International Tropical Timber Organization (ITTO) for its financial assistance. We would like to extend our heartfelt thanks to U Soe Win Hlaing, Director General of the Forest Department for his permission to materialize the training course and for valuable advice. Special thanks are also due to Dr. Hwan Ok Ma, Project Director of the Forest Industry, ITTO for his continuous and energetic support for the success of the training course.

The organizers would like to extend their thanks to U Mehm Ko Ko Gyi, National Consultant for Bamboo Forest Management Section and U Sein Thet, National Consultant for Bamboo Products Processing Section for delivering lectures.

We would also like to express our thanks to U Myint Aung, Principle of CFDTC and to the staffs of all ranks in CFDTC, for their contribution and cooperation.

The organizers also highly appreciate the cooperation and interest of all the trainees which made the objectives of the training course fulfill.

Training Procedure

Curriculum

The training course consisted of two parts: lectures and field trips. Since the duration of the training course was short, the lectures provided the basic knowledge on each subjects. Practical training was also given. At the final stage of the training course, field trip was arranged in order to provide the trainees practical experience on bamboo plantation establishment and silviculture system of natural bamboo forest management.

The contents of training course included Bamboo Forest Management, and Establishment of Community Forest, Bamboo Products Processing, Bamboo Propagation and Plantation Establishment, and Extension and Marketing of Bamboo Products.

Bamboo Forest Management and Establishment of Community Forestry

The curriculum places its emphasis on management and silvicultural practice of bamboo forest management and ways and means for establishment of community forest. The training was conducted by U Mehm Ko Ko Gyi, National Consultant for Forest Management Section.

Bamboo Products Processing

The curriculum aims to offer knowledge on the processing techniques of ordinary and value-added bamboo products. U Sein Thet, National Consultant for Bamboo Products Processing Section and Daw Khin May Lwin Deputy Project Manager of Bamboo Products Processing Section conducted the training.

Bamboo Products Extension and Marketing

The curriculum focuses on the role of bamboo products in domestic and international market, and extension on the awareness of the utilization of bamboo products in Myanmar. Deputy Project Manager of Bamboo Products Extension and Marketing Section, U Kyaw Win gave the lecture.

Bamboo propagation and plantation

The curriculum covers selection of planting materials, methods of propagation and plantation establishment. Dr. San Win, Deputy National Project Manger, Head of Bamboo Management Section, ITTO Bamboo Project conducted the training.

Program of the Training Course

Sunday 11th February 2004

Registration: All trainees reported at the Central Forestry Development Training Centre (CFDTC), Hmawbi, Yangon, Myanmar.

Registrar: U Min Htut

Monday 20th February 2006

Opening Ceremony: Venue - Auditorium, (CFDTC), Hmawbi.

8:00 Daw May Thandar Myo, acted as Master of ceremony and declared the ceremony opened.

8:15 U Htun Paw Oo, Director of the RFI and NPM of the Project chaired the ceremony and gave an opening address.

8:30 Light refreshments were served

Morning Session

U Min Htut, Head of training affair, CFDTC, explained about the training center, training course and hostel disciplines.

U Sein Thet, National Consultant for Bamboo Products Processing Section, gave introduction on bamboo products processing techniques.

Afternoon Session

Daw Khin May Lwin, Deputy National Project Manager, Head of Bamboo Products Processing Section, ITTO Bamboo Project continued lecture on value added bamboo products with slides presentation.

Tuesday 21st February 2006

Morning Session

Dr. San Win, Deputy National Project Manger, Head of Bamboo Management Section, ITTO Bamboo Project started his training on Bamboo Plantation and Propagation Techniques.

Afternoon Session

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

Wednesday 22nd February 2006

Morning Session

U Mehm Ko Ko Gyi, National Consultant lectured on the establishment of community forestry.

Afternoon Session

U Kyaw Win, Deputy Project Manager and Head of Bamboo Products Extension and Marketing Section delivered lecture on bamboo products marketing and efforts for awareness of bamboo utilization in Myanmar.

Thursday 23rd February 2006

Morning Session

Dr San Win delivered his lecture on Bamboo Plantation Establishment and Propagation Techniques

Afternoon Session

Dr San Win demonstrated techniques on Bamboo Plantation and Propagation Techniques in Hmawbi Nursery.

Friday 24th February 2006

Morning Session

Trainees visited the bamboo plantation of the ITTO Projects located at Yedashe Kawhmu Township, Yangon Division. Trainees systematically studied the latest progress of the bamboo plantation of the ITTO Projects. Field discussions on nursery techniques and bamboo plantation establishment were made. Trainees returned to Hmawbi at 3:00 pm.

Saturday 25th February 2006

Morning Session

Closing Ceremony

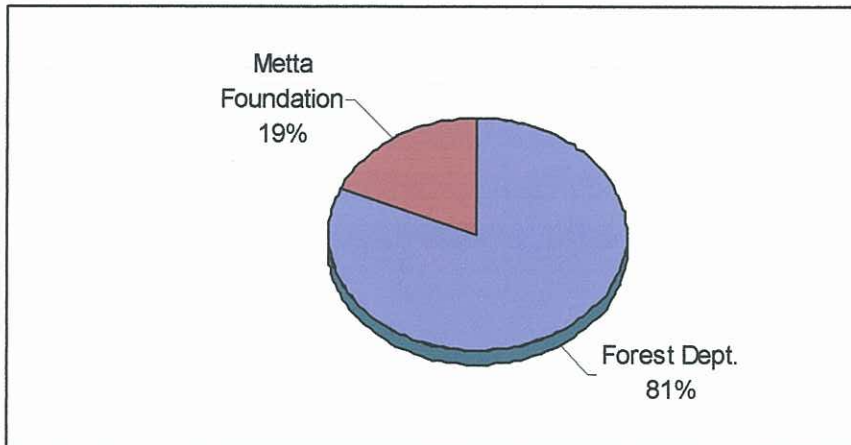
U Myint Aung, Principal of Central Forestry Development Training Centre (CFTDC), gave a closing speech and presented the Certificate of Achievement to all trainees.

Summary of the Training Course

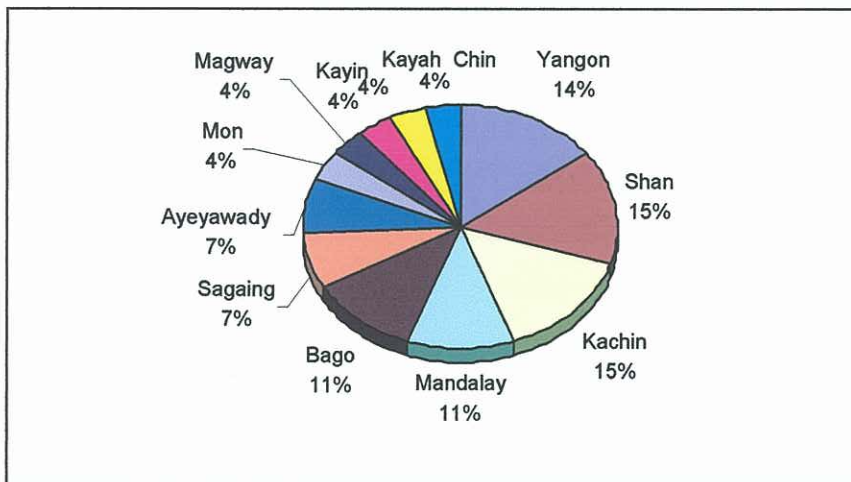
Data on trainees

The total number of trainees was 31. Among them, 22 trainees (81 percent) were from the Forest Department (FD) and 5 trainees (19 percent) were from the Metta Foundation. All the trainees were male by gender. The trainees were from all states and divisions except Tanintharyi Division and Rakhine State.

Trainees by Sector



Trainees by State and Division



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

Expectation and commitment from the training course

The trainee's expectation and commitment can be summarized as follows:

Expectation	Commitment
<ul style="list-style-type: none">• Knowledge, experience	<ul style="list-style-type: none">• 100 percent satisfaction
<ul style="list-style-type: none">• Obtain new knowledge and experience	<ul style="list-style-type: none">• Trainees were better informed with the subjects offered to them
<ul style="list-style-type: none">• Transfer experience and extension	<ul style="list-style-type: none">• They will share training experience with peers on return to their home
<ul style="list-style-type: none">• Application of skill for practical work	<ul style="list-style-type: none">• Have strong intention to promote bamboo industries and manage bamboo forest systematically
<ul style="list-style-type: none">• The knowledge learnt will be useful for present and future generation	<ul style="list-style-type: none">• Traditionally, the knowledge gained will be handed over to peers and younger generation
	<ul style="list-style-type: none">• Completed all training programs with interest for future application.

Suggestions

It is significant that Bamboo Plantation Techniques and Natural Bamboo Forest Management Training Course, Training No (5) recruited trainees from almost all states and divisions in Myanmar. The trainees were from the Forest Department and the Metta Development Foundation. It disseminated knowledge and experiences on bamboo forest management, establishment of community forestry, bamboo products processing, bamboo propagation and plantation establishment, and bamboo products marketing. Additionally, the field trip to the bamboo plantation of ITTO project area was a remarkable interconnection between theory and practice. Unlike previous training courses, the Training Course No (5) included the lectures on the situation of bamboo products in international and domestic markets.

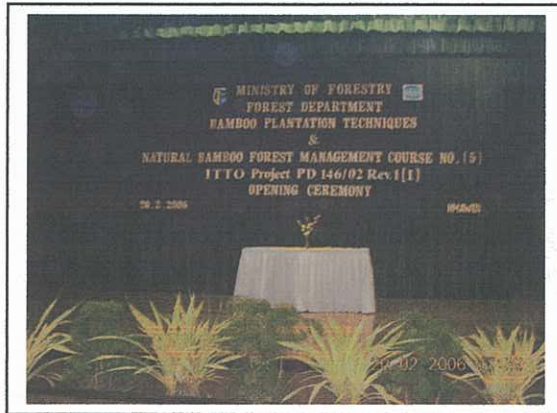
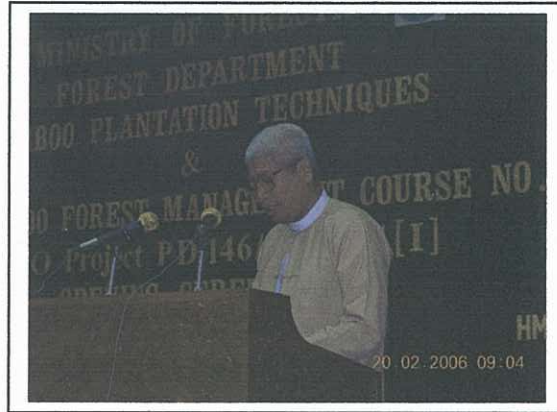
It is also expected that the trainees will transfer their knowledge and experiences to their peers for their sustainable benefits. Suggestions were given by the trainees as follows:

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 next training courses.

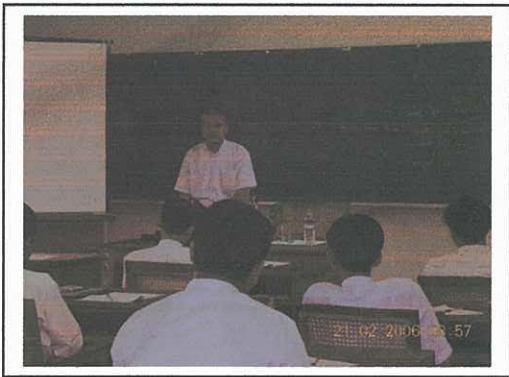
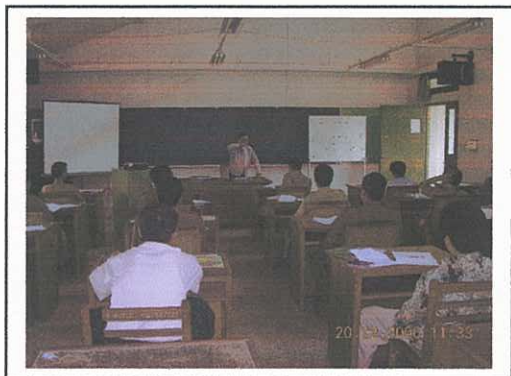
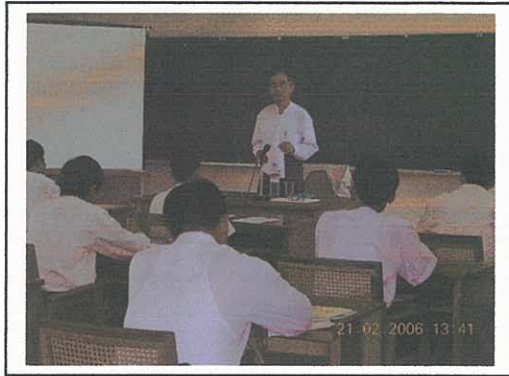
List of Trainees

	Name	Township	State/Division	Sector
1	U Thihan Htwe	Moe Gok	Mandalay	Forest Department
2	U Kyaw Win (2)	Taungoo	Bago	Forest Department
3	U Soe Naing Oo	Monywa	Sagaing	Forest Department
4	U Lwin Ko Ko Latt	Monywa	Sagaing	Forest Department
5	U Ni Sai Maung	Taungdwin Gyi	Magway	Forest Department
6	U Yan Kyaw	-	Shan	Forest Department
7	U Maung Maung	Pha Ann	Kayin	Forest Department
8	U Kyaw Zaw Win	Loikaw	Kayah	Forest Department
9	U Shwe Paing	Hakha	Chin	Forest Department
10	U Kwa Khin Htan	Mataya	Mandalay	Forest Department
11	U Min Min Latt	Hmawbi	Yangon	Forest Department
12	U Saw Luu Theshwe	Yekyi	Ayeyawady	Forest Department
13	U Hla Myo Win	Hlegu	Yangon	Forest Department
14	U Saw Aye Lwin	Bago	Bago	Forest Department
15	U Kyi Naing	Thabaung	Ayeyawady	Forest Department
16	U Than Win	Kyaikmayaw	Mon	Forest Department
17	U Zaw Naing Oo	Ahlonge	Yangon	Forest Department
18	U Kyaw Htwe Hlaing	Mong Sat	Shan	Forest Department
19	U Saw Silar	Pyin Oo Lwin	Mandalay	Forest Department
20	U Aye Win		Bago	Forest Department
21	U Yu Naung	Hmawbi	Yangon	Forest Department
22	U Win Naing Oo	Kalaw	Shan	Forest Department
23	U Kha Daung	Myitkyina	Kachin	Metta Foundation
24	U Zaw Htoo	Myitkyina	Kachin	Metta Foundation
25	U Khun Wailar	Hsihsai	Shan	Metta Foundation
26	U Ye Min Aung	Putao	Kachin	Metta Foundation
27	U Paung Gum Tun	Myitkyina	Kachin	Metta Foundation

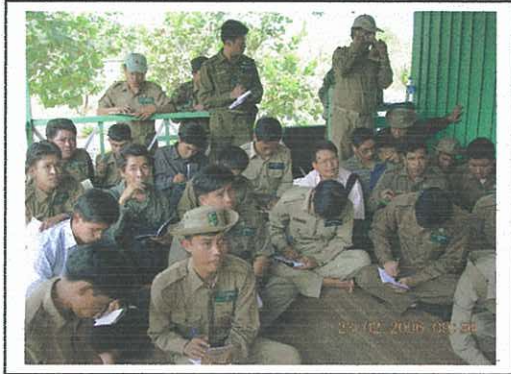
Opening Ceremony



Lectures



Field Trip to the Bamboo Plantation in Kawhmu Township



Closing Ceremony

