


Training Workshop on Natural Bamboo Forest Management:
Training No. 4



Central Forestry Development Training Center
Hmawbi, Yangon
28 November-7 December, 2005

Forest Department, Ministry of Forestry
Yangon, Myanmar
and
International Tropical Timber Organization

Training Report 
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Proceeding No. 4

**Training Workshop on Natural Bamboo Forest Management:
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PREFACE

With the support of International Tropical Timber Organization (ITTO), Training Workshop on Bamboo Forest Management: Training No. (4) 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 workshop were to provide knowledge on systematic harvesting of bamboo, management on sustainable utilization of bamboo, rural community development, establishment of bamboo forest plantation, and bamboo propagation methods.

The training workshop was conducted at the Central Forestry Development Training Center (CFDTC) Hmawbi, Yangon Division from 28th November to 7th December 2005. Altogether 31 trainees attended the training workshop: 20 trainees were from Bago Yoma Greening Project Area, 3 from Myanmar Timber Enterprise and 8 from the private sector.

The training workshop 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 manager 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 Daw Ni Ni Thin 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 31 trainees passed the evaluation standard after 10 days of intensive training. The criteria for the evaluation included standard test table, the interest and proposed bamboo forest management plans.

ACKNOWLEDGEMENTS

The organizers of the training workshop would like to express their thanks to International Tropical Timber Organization (ITTO) for its sponsorship. Special thanks are due to U Soe Win Hlaing, Director General of the Forest Department for his permission to hold the training and for providing all necessary advice.

We would also like to thank Dr. Hwan Ok Ma, Projects Director of the Forest Industry, ITTO for his continuous and energetic support for the success of the training workshop.

The organizers would like to extend their thanks to U Saw Calvin Keh, Advisor(University of Forestry), U Mehm Ko Ko Gyi, National Consultant for Bamboo Forest Management Section, U Sein Thet, National Consultant for Bamboo Products Processing Section, and U Myint Swe, Deputy Director of Forest Department for delivering lectures.

Thanks are also due to U Myint Aung, Principle of CFDTC and to the staffs of all ranks in CFDTC, for their kind support and cooperation.

The organizers also highly appreciate the cooperation and interest of all the trainees which fulfilled the objectives of the training workshop.

Training Procedure

Curriculum

The training workshop consisted of lectures and field trips. At the beginning of the training workshop, lectures were provided. Afterwards, groups were formed to discuss what was learnt during the lectures. Each group consisted of trainees from the Forest Department, Myanma Timber Enterprise and private sector. Field trips were arranged for practical works. From the knowledge and experiences gained from the training, each group formulated bamboo forest management plan and gave presentation.

The contents of training workshop included Natural Bamboo Forest Management, Community Participation in Bamboo Forest Management, Management System of Bamboo Forests/Brake, Bamboo Plantation and Propagation.

Natural Bamboo Forest Management

The curriculum places its emphasis on management and silvicultural practices in natural bamboo forests. The training was conducted by U Saw Kalvin Keh, Advisor, University of Forestry.

Community Participation in Bamboo Forest Management

The curriculum focuses on community participation in bamboo forest management. U Mehm Ko Ko Gyi, National Consultant for Forest Management Section conducted the training.

Management System of Bamboo Forests/Brake

The curriculum highlights on proper management of bamboo forests such as felling system, felling cycle, felling coupe, bamboo production, annual allowable cut of bamboo, and production channels of bamboo. U Myint Swe, Deputy Director of Forest Department, Ministry of Forestry was responsible for the training.

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 workshop

Sunday 27th November 2005

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

Registrar: U Min Htut

Monday 28th November 2005

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

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

8:15 U Htun Paw Oo, Director of Forest Research Institute, Forest Department, Chairman of the ceremony, gave an opening address.

8:30 Light refreshments were served

Morning Session

U Min Htut, Head of training affair, CFDTC, gave explanation about the training center, training workshop and hostel disciplines.

U Saw Calvin Keh, Advisor, University of Forestry, started his lecture on Natural Bamboo Forest Management.

Afternoon Session

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

Tuesday 29th November 2005

Morning Session

U Myint Swe, Deputy Director of Forest Department provided lecture on Management System of Bamboo Forest/Brakes.

Afternoon Session

U Myint Swe continued with his lecture after the lunch break.

Wednesday 30th November 2005

Morning Session

Lecture on Community Participation in Bamboo Forest Management was delivered by U Mehm Ko Ko Gyi, National Consultant for Bamboo Forest Management Section.

Afternoon Session

U Sein Thet, National Consultant for Bamboo Products Processing Section, and Daw Khin May Lwin, Deputy Project Manager delivered a lecture on Bamboo Production and Utilization.

U Saw Calvin Keh continued his lecture on Natural Bamboo Forest Management.

Thursday 1st December 2005

Morning Session

U Mehm Ko Ko Gyi delivered the final session of his lecture on Community Participation in Bamboo Forest Management.

Afternoon Session

Dr San Win gave his lecture on Bamboo Plantation and Propagation Techniques.

Friday 2nd December 2005

Morning Session

Three Study Groups were formed. Group 1 consisted of 8 trainees from the Forest Department, 1 from Myanmar Timber Enterprise and 2 from the private sector. Group 2 was also composed of 6 trainees from the Forest Department, 1 from Myanmar Timber Enterprise and 3 from the private sector. Group 3 was formed by 6 trainees from the Forest Department, 1 from Myanmar Timber Enterprise and 3 from the private sector. There were group discussions after group formation.

Afternoon Session

Group discussions continued. Members of each group actively took part in the discussions.

Saturday 3rd December 2005

Morning Session

All the trainees made a field visit to the natural bamboo forest located in Taikkyi Township, Yangon

Afternoon Session

The trainees studied the situation of natural bamboo forest in Taikkyi Township and field discussions were made on how to manage the bamboo forest systematically.

Sunday 4th December 2005

Morning Session

The trainees made a study tour to the bamboo plantation of ITTO project located at Yedashe, Kawhmu Township, Yangon. They were shown on how to propagate the bamboo in the nursery and the dos and don'ts in planting out bamboo in the field.

Afternoon Session

The trainees studied the 5 experimental plots that were established at Yedashe, Kawhmu Township, Yangon

Monday 5th December 2005

Morning Session

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

Afternoon Session

Each group of trainees started with the formulation of bamboo forest management plans.

Tuesday 6th December 2005

Morning Session

Brain storming on the formulation of the bamboo forest management plans by the 3 groups took place.

Afternoon Session

The 3 groups of trainees finalized their bamboo forest management plans. Questionnaires were distributed to the trainees in order to evaluate them concerning the training.

Wednesday 7th December 2005

Morning Session

Each group of trainees gave presentation on bamboo forest management plan that they formulated.

Afternoon Session

Closing Ceremony

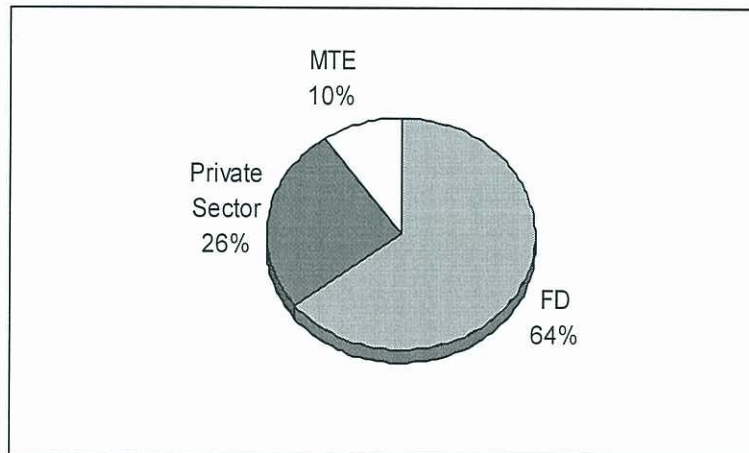
U Htun Paw Oo, National Project Manager of the ITTO Bamboo Project gave a closing speech and presented the Certificate of Achievement to all trainees.

Summary of the Training workshop

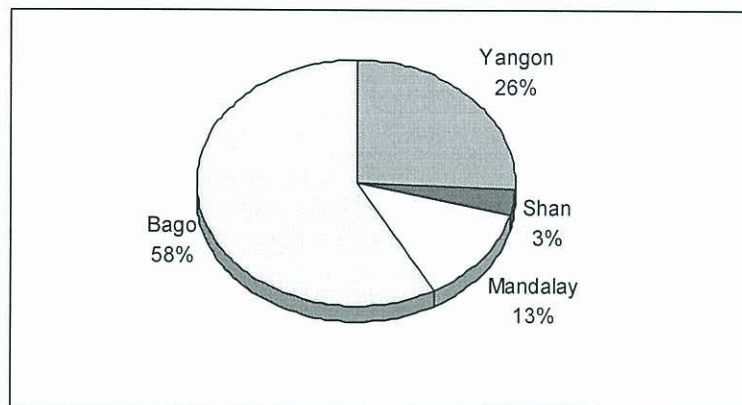
Data on trainees

The total number of trainees was 31. All the trainees are male by gender. Among all of them, 20(64 %) were from the Forest Department (FD), 8(26%) from private sector and the remaining 3(10%) from the Myanmar Timber Enterprise(MTE). The trainees were mostly from Bago Division followed by Yangon and Mandalay.

Trainees by Sector



Trainees by State and Division



Training Evaluation

Criteria for Evaluation

1. Duration of training workshop
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 workshop

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

Training Workshop on Natural Bamboo Forest Management No (4) distributed knowledge and experiences on systematic felling of bamboo, management on sustainable utilization of bamboo, rural community development, establishment of bamboo forest plantation, and bamboo propagation.

The trainees extended their prior theoretical knowledge on bamboo forest management by taking the lectures. Additionally, the field trips to natural bamboo forests and bamboo plantation located in the ITTO Project area were valuable in fulfilling practical knowledge for the trainees.

Moreover, the training workshop highlighted the important relationship between the sustainable bamboo forest management and rural community development. The trainees from the private sector also gained the opportunity to study the importance of sustainable bamboo forest management for uninterrupted supply of raw materials.

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 detail theoretically and practically
2. Trainees should also be recruited from other locations where natural bamboo forests are abundant
3. There should be more training equipments supported.
4. There should be some monitoring programme to evaluate the development of each trainee.

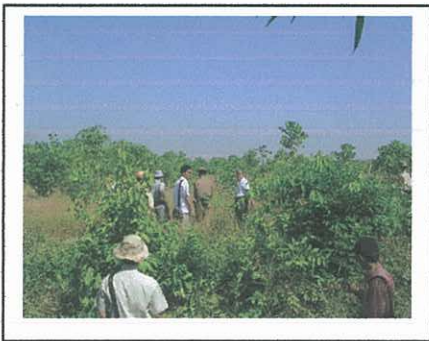
List of Trainees

	Name	Township	State/ Division	Sector
1	U Than Win	Thanlyin	Yangon	Forest Department
2	U Aung Myat Kyaw	Kalaw	Shan	Forest Department
3	U Aung Kyaw	Pyinmana	Mandalay	Forest Department
4	U Mya Maung	Yemethin	Mandalay	Forest Department
5	U Sotsants Khine	Tatkone	Mandalay	Forest Department
6	U Chit Oo	Laiway	Mandalay	Forest Department
7	U Tin Win	Taungoo	Bago	Forest Department
8	U Saw Htwe Maung	Daik Oo	Bago	Forest Department
9	U Tint Lwin	Natalin	Bago	Forest Department
10	U Win Myint	Paukkaung	Bago	Forest Department
11	U Khin Zaw	Pantaw	Bago	Forest Department
12	U Okkar	Yedashe	Bago	Forest Department
13	U Khin Maung Hlaing	Nyaung Lay Bin	Bago	Forest Department
14	U Saw Maung Shwe	Taungoo	Bago	Forest Department
15	U Aung Win	Bago	Bago	Forest Department
16	U Aung Kyaw Soe	Paungte	Bago	Forest Department
17	U Aung Gyi	Tharyawady	Bago	Forest Department
18	U Tha Hlaing	Tharyawady	Bago	Forest Department
19	U Thant Zin(2)	Letpandan	Bago	Forest Department
20	U Aye Than	Pyi	Bago	Forest Department
21	U Zaw Htay	Tharyawady	Bago	Myanma Timber Enterprise
22	U Kyaw San Oo	Zegon	Bago	Myanma Timber Enterprise
23	U Than Win	Bago	Bago	Myanma Timber Enterprise
24	U Kyaw Kyaw Moe	Kyaw Yadanar	Yangon	Private
25	U Thet Naing	Uinversal Co	Yangon	Private
26	U Than Hlaing	Bamboo Star	Yangon	Private
27	U San Aung	Bamboo Star	Yangon	Private
28	U Thein Soe Oo	Co-operative	Yangon	Private
29	U Kyaw San Htoo	Nay Wun Myat	Yangon	Private
30	U Myo Hlaing Oo	Wa Mink Co Ltd	Yangon	Private
31	U Sein Gyi	Paukkan Co Ltd	Bago	Private

Lectures



Field Trip to the Bamboo Plantation in Kawhmu Township



Field Trip to the Natural Forest in Taikkyi Township

