

Republic of the Union of Myanmar
Ministry of Natural Resources and Environmental Conservation
Forest Department



**“Watershed conservation training for village administration
members, Paung Laung watershed area, Pin Laung Township”**

Completion Report

December 2023

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Integrated forest ecosystem management and demonstration project
In greater Mekong sub-region (Myanmar)
“Watershed conservation training for village administration members, Paung Laung
watershed area, Pin Laung Township”
Completion Report

Introduction

1. The Project title “Integrated forest ecosystem management and demonstration project in greater Mekong sub-region (Myanmar), Myanmar Component is being implemented by the Forest Research Institute, Forest Department and the Asia-Pacific Network for sustainable forest management and rehabilitation (APFNet) with five-year plan. The three specific objectives are: (1) To conserve and improve forest germplasm resources through construction of Arboretum in FRI; (2) To demonstrate integrated watershed management practice in Paung Laung Watershed; and (3) To enhance the capacity and knowledge of local community, local government and staff through capacity building programs.
2. Paung Laung watershed area Pinlong Village, there are eight (8) villages in the Htein Pin group, including Leinli Village, and they are mainly engaged in upland agriculture. These villages are also involved in the villages that are carrying out conservation activities in the Paung Laung Dam watershed by Forestry Department, Kalaw Township.
3. Establishment of agroforestry demonstration plots with the planting of forest tree, fruit tree, bamboo and seasonal/annual crop in Leinli Village. Providing support and training to produce finished products from local raw materials. This training was held with the aim of improving the participation and knowledge development of village administration members in watershed area conservation activities.

Objectives

4. The objectives are as follows-
 - (1) To know the importance of forests and forest resources; water, land and mountain within the watershed area
 - (2) To understand the lecture and practical watershed conservation works
 - (3) To promote public participation in multi-level watershed management activities

Training Period

5. Training was held during December 4, 2023 to December 7, 2023 for 4 days.

Training Place

5. Training was held at Auditorium and arboretum at the Forest Research Institute.

Opening/ Closing Ceremony

6. Opening/ closing ceremony will be attached in appendix (1-1) and (1-2).

Invited Persons

7. Invited persons will be attached in appendix 2.

Training Courses

8. Training time table will be attached in appendix (3) and training courses are as follows-
- (1) Introduction to the basic concepts of watersheds
 - (2) A clear discussion of the negative effects of water and soil erosion based on international trends of watershed area
 - (3) Management of watershed areas in Myanmar
 - (4) Discussion on (3) Dam project work: Paung Laung Dam, Nga Like Dam and Sin Thay Dam
 - (5) Management of river basins and lakes
 - (6) Introduction to integrated watershed management
 - (7) Water quality monitoring
 - (8) Information discussion about the Inlay Lake watershed conservation project
 - (9) Soil erosion, carrying out water erosion and conservation works
 - (10) Difficulties encountered in watershed conservation activities and ways to solve them
 - (11) Implementation of watershed conservation demonstration activities (Practical)
 - (12) Good to know about water and land conservation activities

Trainers

9. The list of trainers lectured at the training are listed as follows;

No.	Name	Position
1.	U Moe Thu	Director, Watershed Management Division
2.	U Moe Zaw	Director, Forest Research Institute
3.	Dr. Win Maung Aye	Assistant Director, Watershed Management Division
4.	U Tin Myo Aung	Assistant Director, Watershed Management Division
5.	Daw Nway Mon Mon Aung	Staff Officer, Watershed Management Division
6.	U Thuya Htike Aung	Staff Officer, Watershed Management Division
7.	U Swan Pyae Aye Aung	Range Officer, Watershed Management Division
8.	Dr. Ei Ei Swe Hlaing	Assistant Director, Forest Research Institute

List of Trainees

10. 25 trainees: Local villagers from the project area where located at the Lainli village, Pinlaung Township, Shan State, attended in this training.

Cost for Training

11. Training cost was funded by the integrated forest ecosystem management and demonstration project in greater Mekong sub-region (Myanmar), APFNet.

Invitation letters

12. Invitation letters and confirmation letters were communicated by using telephone.

Preparing Ceremony

13. Backdrop preparation, social distancing seating plan, setting up for COVID-19 prevention, video camera preparation and audio devices arrangement were prepared by the staffs of Forest Research Institute, Yezin. Backdrop sample will be attached in appendix (5).

Hospitality

14. Hospitality including opening ceremony and closing ceremony were arranged by the staffs of Forest Research Institute, Yezin.

Documentary

15. Photo documentary and training records were taken by Project Assistant of FD- APFNet (IFEM) Project.

- (1) Making name list. Group of recording name list was making the attendance of trainees and giving the update information of training.
- (2) Documentary. Group of documentaries was taking photos, note records and writing completion report.

Teaching Topics

16. First, gave a briefing on the " Integrated forest ecosystem management and demonstration project in greater Mekong sub-region (Myanmar)". After that, the basic concepts of watershed were taught. Then, Definition of watershed; The importance of mountainous areas; Considering the relationship between tributary and downstream; Socio-economic factors to consider; Change in management of watershed area forests; Watershed management and comprehensive watershed management; Watershed management and integrated watershed management; Traditional watershed management and community-based comprehensive watershed management; Watershed management and maintenance activities; Cooperation with international organizations was taught. After that, the water cycle in relation to the management of river basins and lakes; The relationship between water and forest resources; Meaning of the river basin; River basin management and lake management plan with photographs and animations; To connect Inle Lake watershed conservation projects to be carried out from 2020-21 to 2029-30 and to know that was taught to be easy to understand and follow.

17. To know the status of conservation activities in the watershed area of Paung Laung Dam, Sinthay Dam and Ngaliike Dam; The period and the townships where watershed area reclamation works will be carried out; (18) types of watershed maintenance work being carried out; The status of completion of watershed maintenance works up to fiscal year 2020-2021; the completion status of watershed area conservation works of 2021-2022 (6 months) budget year and 2022-2023 budget year; Watershed area conservation works being carried out in the budget year 2023-2024; The status of cooperation with international organizations in the Paung Laung Dam watershed

area; The benefits that will be gained by the watershed conservation work were taught with photos of the activities and implementing activities.

18. Water quality monitoring and inspection; Information and discussion about the Inlay Lake watershed conservation project; soil erosion; Carrying out water erosion and conservation works; Difficulties that may be encountered in watershed conservation activities and ways to solve them, and Learned about water and land conservation activities were taught. The training documentary photos will be attached in appendix (6).

Practical/Field Work

19. Demonstration activities related to watershed conservation were carried out in the field. Construction of a small stone silt control dam; Small living fences and silt control dams using branch tips. Practical work was done to the trainees in the Arboretum of the FRI.

Feedback from Trainees

20. After the training, following feedback were received from the trainees -

- They don't have knowledge about rules on conservation of natural spring. Through this training, they understand about these rules adopted by the FD and rights of local community who is conserving natural spring.
- Before attending training, they think that the water in their village is clean and clear. After training, they understand well about the concept of fresh water.
- They understand that rain water can be stored using various methods such as small earth and stone dams and small reservoir.
- They understand the values of trees and its ecosystem services to watershed conservation.
- This training can upgrade their traditional knowledge to scientific management of natural spring and watershed conservation approaches.
- One of trainees demonstrated bio fencing and bio channel in his farm after the training.
- Trainees can share knowledge each other as they are from different location in Pinlaung watershed area.

Conclusion

21. By opening a watershed conservation "Watershed conservation training for village administration members, Paung Laung watershed area, Pin Laung Township", for the long-term sustainability of Paung Laung Stream that is one of the three main water resources in the Union Territory (Paung Laung, Sinthay, Naglike) with the systematic planting and conservation of watershed forests for the long-term sustainability of the watershed that it will help to promote public participation in the process.

“Watershed conservation training for village administration members, Paung Laung watershed area, Pin Laung Township”

Agenda for Opening Ceremony

Date : 4.12.2023 (Monday)

Time : 09: 00- 10: 00 AM

Place : Auditorium, Forest Research Institute, Yezin

No.	Time	Agenda
1	09: 00- 10: 00	Agenda for Opening Ceremony (1) Announcement for opening ceremony (2) Opening speech delivered by Dr. Thaung Naing Oo, Director General of Forest Department (3) Announcement of ending for opening ceremony (4) Photo Session (5) Refreshment

Appendiz (1-2)

“Watershed conservation training for village administration members, Paung Laung watershed area, Pin Laung Township”

Agenda for Closing Ceremony

Date : 7.12.2023 (Thursday)

Time : 15 : 15 – 16 : 15PM

Place : Auditorium, Forest Research Institute, Yezin

No.	Time	Agenda
1	15:15 – 16:15	Agenda for Closing Ceremony (1) Announcement for opening ceremony (2) Closing Remarked by U Moe Zaw, Director of Forest Research Institute, Forest Department (3) Awarding the certificates (4) Announcement of ending for closing ceremony (5) Refreshment

Appendix (2)**“Watershed conservation training for village administration members, Paung Laung watershed area, Pin Laung Township”****Invitaded Persons**

	Name	Department	Number
1	Director General, Deputy Director General, Director, Deputy Directors, Assistant Directors, Staff Officers/Assistant Research Officer, Range Officer/Assisatant Researcher-2	Forest Department and Forest Research Institute	68
2	Trainees	Local villagers, (8) villages from Htain Pin Village Group, Pinlaung Township, Shan State	25
Total			93

Appendix (3)

“Watershed conservation training for village administration members, Paung Laung watershed area, Pin Laung Township”

Training Courses and Time Table (4.12.2023 to 7.12.2023)

Time Date	09:00 – 10:00	10:00 – 10:15	10:15 – 11:15	11:15 – 12:15	12:15 – 13:00	13:00 – 14:00	14:00 – 15:00	15:00 – 15:15	15:15 – 16:15
4.12.2023	Opening Ceremony	Tea Break	Course introduction and entrance examination	Introduction to the basic concepts of watersheds	Lunch Break	A clear discussion of the negative effects of water and soil erosion based on international trends of watershed area	Management of watershed areas in Myanmar	Tea break	Management of watershed areas in Myanmar
5.12.2023	Discussion on (3) Dam project work: Paung Laung Dam, Nga Like Dam and Sinthay Dam		Management of river basins and lakes			Introduction to integrated watershed management			Water quality monitoring
6.12.2023	Information discussion about the Inlay Lake watershed conservation project		Soil erosion, carrying out water erosion and conservation works			Soil erosion, carrying out water erosion and conservation works	Difficulties encountered in watershed conservation activities and ways to solve them		Difficulties encountered in watershed conservation activities and ways to solve them
7.12.2023	Implementation of watershed conservation demonstration activities (Practical)		Implementation of watershed conservation demonstration activities (Practical)			Good to know about water and land conservation activities	Course output analysis		Closing Ceremony



သယံဇာတနှင့်သဘာဝပတ်ဝန်းကျင်ထိန်းသိမ်းရေးဝန်ကြီးဌာန
သစ်တောဦးစီးဌာန



သင်တန်းဖွင့်ပွဲအခမ်းအနား ဖိတ်ကြားခြင်း

“ပေါင်းလောင်းရေဝေရေလဲဒေသ၊ ပင်လောင်းမြို့နယ်ရှိ ကျေးရွာအုပ်ချုပ်ရေးအဖွဲ့ဝင်များ
အတွက် ရေဝေရေလဲဒေသ ထိန်းသိမ်းရေးဆိုင်ရာ သင်တန်း”
ဖွင့်ပွဲအခမ်းအနားကို အောက်ဖော်ပြပါ အစီအစဉ်အတိုင်း ကျင်းပပြုလုပ်မည်ဖြစ်ပါသဖြင့်
ကြွရောက်ချီးမြှင့်ပါရန် လေးစားစွာ ဖိတ်ကြားအပ်ပါသည်။

နေ့ရက် - ၂၀၂၃ ခုနှစ်၊ ဒီဇင်ဘာလ ၄ ရက် (တနင်္လာနေ့)

အချိန် - နံနက် (၀၉:၀၀) နာရီမှ (၁၀:၀၀) နာရီအထိ။

နေရာ - စုဝေးခန်းမ၊ သစ်တောသုတေသနဌာန၊ ရေဆင်း



သယံဇာတနှင့်သဘာဝပတ်ဝန်းကျင်ထိန်းသိမ်းရေးဝန်ကြီးဌာန
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သင်တန်းဆင်းပွဲအခမ်းအနား ဖိတ်ကြားခြင်း

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အချိန် - နေ့လည် (၁၅:၁၅) နာရီမှ (၁၆:၁၅) နာရီအထိ။

နေရာ - စုဝေးခန်းမ၊ သစ်တောသုတေသနဌာန၊ ရေဆင်း



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သစ်တောဦးစီးဌာနနှင့် APFNet တို့ပူးပေါင်းကျင်းပသော

“ပေါင်းလောင်းရေဝေရေလဲဒေသ၊ ပင်လောင်းမြို့နယ်ရှိ ကျေးရွာအုပ်ချုပ်ရေးအဖွဲ့ဝင်များ အတွက်
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သင်တန်းဆင်းပွဲအခမ်းအနား

၇-၁၂-၂၀၂၃

ရေဆင်း

သစ်တောသုတေသနဌာန၊



Opening speech delivered by Dr. Thaung Naing Oo, Director General of Forest Department



Invited Persons, Trainers and Trainees at the Opening Ceremony



Lecture by Dr. Ei Ei Swe Hlaing



Lecture of Introduction to the basic concepts of watersheds



Lecture of Water quality monitoring, Information discussion about the Inlay Lake watershed conservation project, Good to know about water and land conservation activities



Pracital/Field activities



Practical/Field activities



Practical/Field activities



Awarding Certificate



Documentary Photo