



Teak Mekong Newsletter

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Joint Training Workshop on

Teak Plus Tree Selection, Seed Orchard Establishment and Agroforestry Practices

21-25 February 2022 at PM Place Hotel, Phayao Province, Thailand

TEAK Mekong Newsletter support and facilitates teak networking in the Mekong sub-region through ITTO member countries and partners, and support sharing lessons of the project results through short news release, occasional papers, project related teak-based research and development information. The bi-monthly newsletter is released online through TEAKNET webpage www.teaknet.org and co-hosted by Kasetsart University, Thailand.

For more information please contact,

PK Thulasidas (thulasidas.teak@gmail.com)
or
Yongyut Trisurat (fforyyt@ku.ac.th)



Workshop participants with Resource persons

A joint training workshop on 'Teak plus tree selection, seed orchard establishment and agroforestry practices' was conducted at PM Place Hotel located at Muaeng District, Phayao Province during 21-25 February 2022 as part of the ITTO Teak project now under implementation in Mekong sub-region with the participation of 5 countries of the region. To enhance the efficiency of the smallholder community-based plantations and agroforestry system, the aim of the training workshop focuses on basic genetic improvement of teak by selection of plus trees, seed orchard establishment and agroforestry practices.



The objectives of the workshop were to impart practical knowledge and training on:

- 1) basic genetic improvement of teak
- 2) progress of up- to- date information of teak improvement in Thailand
- 3) to train participants on teak plus tree selection
- 4) principle of teak seed orchard establishment and management
- 5) principle of agroforestry, and
- 6) to train participants how to apply agroforestry system as an option for teak plantation establishment and management.

Participants of the workshop

This training focus on providing knowledge to field staff and responsible official staffs to become trainers (training for trainer) and are able to convey knowledge to interested people in planting teak in the future. The workshop approaches included lecture, practical exercise, discussion and field demonstration. Potential participants were from Thailand. In addition, individuals, private sectors and smallholder farmers were targeted. A total of thirty participants attended the workshop as detailed below.

- | | |
|---|------------|
| 1) Royal Forest Department | 10 persons |
| 2) Forest Industry Organization | 10 persons |
| 3) Private and smallholder teak plantations | 10 persons |

It is worth mentioning to note that the project aims at having the same participants attending the consecutive training workshops throughout the project period and become the trainers later.



A view of the participants with the project team (front row)

Language used in training: Thai

Training duration and venue:

Duration: 5 Days (21-25 Feb 2022)

Venue: Lecture at PM Place Hotel, Phayao Province

Field practices and field visits:

- ⇒ Sobplung plantation, Thampa Thai National Park Lampang province,
- ⇒ Maegar Silvicultural Research Station and
- ⇒ a private plantation in Phayao province for agroforestry practice

Lectures on basic genetic improvement, plus tree selection, principle of teak seed orchard establishment is provided by Consultant#2 (Ms. Chumnun Piananuruk) on the 1st day. Consultant#5 (Mr.Tosporn Vacharangkura) gave participants the lectures on principle of agroforestry system including its application for teak plantation establishment and management on the same day. The main topics of agroforestry system and its applications dealt with are the following.

- * History of agroforestry
- * Definitions and concept of agroforestry system
- * Type of agroforestry
- * Advantages and disadvantages of agroforestry
- * Interaction between trees and agricultural crops in agroforestry
- * Risks of monoculture forest plantations and decreasing risks
- * Suitable models of agroforestry system for smallholder farmers
- * Application of agroforestry system (models) for teak plantation

On the 2nd day, participants visited Maegar Silvicultural Research Station. Seed orchard establishment and management and associated activities were presented to participants by Chief of the station, Ms. Somporn Kamshompoo to ensure that they understood the procedure of teak seed orchard establishment. Participants then proceeded to Ngao Silvicultural Research Station, Ngao District, Lampang Province on the same day.

The procedure of seed collection from teak plus trees and seed management protocol were demonstrated to participants followed by field practices on plus tree selection to ensure that participants could do by themselves. On the last day, participants visited demonstration plots of agroforestry (intercropping forest trees or fruit trees on agricultural crops cultivations) located on Ban Tam Sub district, Muang Payao District, Payao Province implemented by Maegar Silvicultural Research Station and hill tribe group of Northern Thailand (Lisu hill tribe). Participants learned how to apply agroforestry system as an option to grow teak or other forest trees species with fruit trees (cultivated banana, longan and avocado) and agricultural crops. Participants then visited a private homegarden in agroforestry system, a small area of 5 rai (0.8 ha) located on Mae Ka Sub district, Muang Phayao District, Phayao Province. Homegarden is one of the most prevalent types of land-use system suitable to tropical monsoon areas. Participants learned how to raise multistory combinations of various perennial and annual crops for home consumption and sale, sometimes in association with domestic animal around homesteads. They could apply this model of agroforestry system as an option for improvement in livelihood through various food production systems, wood products, fodder and firewood, high biodiversity, low use of external inputs etc.

Participants then visited Ban Tham Sub district, Dok Kham Tai District, Phayao Province in order to see experimental plot of intercropping teak (high-quality genetic improved teak) with agricultural crops (implemented by RFD) and private teak agroforestry plots belonging to a smallholder farmer, Mr. Inthuan Kruaboon. Participants learned the layouts of various alley cropping (hedge row intercropping) plots where teak trees, managed as hedge rows, were grew in wide rows and agricultural crops, such as upland rice, maize, etc. were planted in the interspace between teak rows. Consultant#5 (Mr.Tosporn Vacharangkura) gave participants explanation of the model and shared experiences in the field with them.

Expected outputs

1. Trainees are well educated on teak improvement situation in Thailand.
2. Participants are able to select plus tree of teak and apply knowledge to set up criteria for other species.

- 3) They are able to establish seed orchard.
- 4) Participants submit drafts of at least 3 project proposals on teak improvement or agroforestry related area.
- 5) Participants follow the principles of agroforestry.
- 6) They are able to apply agroforestry system for teak plantation establishment and management.
- 7) Participants have an opportunity to exchange experience among each other and the trainers and plantation owners.

Photo Gallery



Plus tree selection





↑
← Practical training on seed orchard management and establishment



Participants in the different agroforestry systems



Report by

Prof. Yongyut Trisurat
Faculty of Forestry
Kasetsart University, Bangkok
Thailand
Email: fforyyt@ku.ac.th

Efforts of Conservation of Teak Seed Sources in Lao Ngam District, Saravanh Province, Southern Laos

Vongvilay VONGKHAMSAO

Director of Forestry Research Centre
National Agriculture and Forestry Research Institute,
P.O Box 7170, Vientiane Capital, Lao PDR
Email: vongvilay7566@gmail.com



Group photo at Teak Seed Source, Lao-Ngam District, Saravanh, Southern Laos

Teak (*Tectona grandis* L.f.) is an important tropical commercial hardwood species native to South and South-east Asia; and it has been widely planted in many tropical countries. There are three species of teak, namely *Tectona grandis*, *Tectona hamiltoniana* and *Tectona philippinensis*, the latter two are endemic to Myanmar and Philippines, respectively. Among the three, the durable timber yielding

Tectona grandis are naturally distributed in the Southeast Asian countries especially Myanmar, Thailand, India and Lao PDR. Teak is found growing in the varied habitats and climatic conditions from arid areas with only 500 mm annual rainfall to wet areas with annual rainfall as high as 3000 mm having a dry season of 3-5 months.

Since around 1940s, planting of teak has been promoted widely and successfully adopted by teak plantation small-holders in the northern province of Lao PDR, especially in Luang Prabang while teak was lesser extent in areas of Southern part of Laos. Forestry Strategy towards 2035 and Vision 2050 has a set target to increase the forest cover to 70% of country's land area with equivalent of 16.5 million hectare by 2035. In this context, supply of good quality tree seeds for tree planting, especially commercial species such as teak is very crucial.

Teak planting was introduced to Lao-Ngam District, Saravanh Province, southern part of Laos, a French colony during 1947. There were 36.5 hectares of area as it was the old teak plantation. The National Agriculture and Forestry Research Institute (NAFRI) in collaboration with Saravanh Provincial Agriculture and Forestry Office established a Tree Seed Source since 2004, which has 405 mother trees in these 36.5 hectares. These teak seed source in Lao-Ngam District are sustainably managed to avoid villagers' land occupation for agricultural expansion of Cassava planting.



Mother tree at Teak Seed Source, Lao-Ngam District, Saravanh, Southern part of Laos



Teak plantation, Lao-Ngam District, Saravanh



Cassava plantation around Teak seed source, Lao-Ngam District, Saravanh Province

With the support of ITTO Teak project, “*Enhancing Conservation and Sustainable Management of Teak Forest and Legal and Sustainable Wood Supply Chains in the Greater Mekong sub-region*” (PP-A/54-331)” under Output 1: The conservation of teak genetic resources, sustainable management and use of natural teak forests and market accesses of teak from legal sources have been improved. Forestry Research Centre, NAFRI has joined hands with Saravanh Provincial Forestry Section planned and identified key actions as follows to accomplish the above tasks:

1. Define clearly the border lines and prepare map of teak seed sources with participation of both local forestry officials and villagers, who lives around this teak seed source.
2. Inform and disseminate regulations of seed source management to all stakeholders.
3. Enrich planting of teak seedlings within seed sources area of 36.5 hectares wherever appropriate. It is expected to plant 2,000 teak seedlings in the coming monsoon period of June, 2022.
4. Increase the participation of villagers in land-use planning and resources management including conservation and commercial production and capacity building at all levels of forest management.

XV World Forestry Congress

2-6 May 2022, Coex, Seoul, Republic of Korea



XV WORLD FORESTRY CONGRESS

**Building a Green,
Healthy and Resilient Future with Forests**
2-6 May 2022 | Coex, Seoul, Republic of Korea

TEAKNET Side Event

New Opportunities for Teak Sector in the Post COVID-19 Scenario

Under Sub-theme III: The green pathway to growth and sustainability

Thursday, May 5, 2022 | 9:30 - 11:00 AM (GMT +9)

Teak is one of the most valuable tropical hardwoods in the world. Natural teak forests are fast dwindling in their natural habitats and the genetic resource base is at high risk of losing its diversity. The importance of teak in family farming and forest conservation along with its prominent position in the global timber trade has resulted in the expansion of teak plantations in about 70 countries throughout tropical Africa, Asia, Latin America and Oceania. However, the social and economic disruptions of the COVID-19 pandemic are having undesired effects on the global teak sector. As part of promoting the sustainable management of teak resources and sustainable production and consumption of teak wood, TEAKNET is currently collaborating with ITTO in the execution of a project involving Cambodia, Lao PDR, Myanmar, Thailand and Vietnam. This side event will be an excellent opportunity to discuss the role of teak forests in building back better livelihoods in the post-pandemic scenario. It will also review the impacts of climate change on natural teak forests and highlight good practices of conservation, management and sustainable use of teak forests in the Mekong region. The event will publicize and detail the forthcoming 4th World Teak Conference (5-8 Sep 2022, Accra, Ghana) to the wider audience of the World Forestry Congress.

Session Chair



Dr. S. Sandeep
TEAKNET Coordinator
Kerala Forest Research Institute
India

Opening Remarks



Ms. Sheam Satkuru
Executive Director
International Tropical Timber
Organization (ITTO), Japan

Felicitat ion address



Dr. Michael Kleine
Deputy Executive Director
IUFRO Head Quarters
Vienna, Austria

Session Co-Chair



Dr. P.K. Thulasidas
Dy. Coordinator
IUFRO Teakwood Working Party
India

Teak Book Release



Dr. Ma Hwan-ok
Projects Manager
International Tropical Timber
Organization (ITTO), Japan



Prof. Dr. Yongyut Trisurat
Regional Activity Manager
ITTO Teak Mekong Project
Thailand

Organizers





PROGRAMME SCHEDULE

Thursday, May 5, 2022 I 9:30 - 11:00 AM (GMT +9)

Session Chair : Dr. S. Sandeep, TEAKNET Coordinator		
Co-chair : Dr. PK Thulasidas, Dy. Coordinator, IUFRO Teakwood Working Party (Div.5.06.02)		
09:30 – 09:40	Introduction and Opening Remarks	Ms Sheam Satkuru, Eecutive Director, ITTO, Japan
09:40 – 09:45	Felicitatoin Address (Virtual)	Dr. Michael Kleine, Dy. Executive Director, IUFRO HQ, Vienna, Austria
09:45 - 09:50	New opportunities for Teak sector in the post COVID-19 Scenario	Dr. S. Sandeep TEAKNET Coordinator Kerala Forest Research Institute, Peechi, India
09:50 – 10:00	Predicted Climate Change Impact on Natural Teak Forests in the Greater Mekong Sub-region	Prof. Dr. Yongyut Trisurat, Faculty of Forestry, Kasetsart University Thailand
10:00 – 10:10	Sustainable management of natural teak forests in Myanmar	Dr. Zar Chi Hlaing Staff Officer, Forest Department, Ministry of Natural Resources and Environmental Conservation, Myanmar
10:10 – 10:20	Sustainable investment in teak plantations in Cambodia	Mr. Chheang Dany Dy. Director General, Forestry Administration, Cambodia
10:20 – 10:30	Small holders' timber certification in Vietnam	Dr. Tran Lam Dong Director, Silvicultural Research Institute, Vietnamese Academy of Forest Science, Hanoi, Vietnam
10: 30 – 10:40	4 th World Teak Conference 2022 updates from LOC, Ghana	Ms. Valerie Fumey Nassah Head of Plantations Department Resource Management Support Centre Forestry Commission of Ghana, Kumasi
10:40 – 10:50	Discussion	
10:50 – 10:55	Book Release: "Sustainable Management of Teak (<i>Tectona grandis</i>) in the Mekong Region"	Dr. MA Hwan-ok & Prof. Dr. Yongyut Trisurat ITTO Teak Mekong Project Team
10:55 – 11:00	Closing remarks & Wrap up	Dr. PK Thulasidas Dy. Coordinator, IUFRO Teakwood Working Party (D5.06.02)

The World Forestry Congress is held approximately once every six years. The last WFC was held in Durban, Africa in 2015. This time, XV World Forestry Congress will be hosted by the Government of the Republic of Korea from 2-6 May 2022 and will be held at the COEX Convention and Exhibition Center in Seoul.

In conjunction with WFC at Seoul, TEAKNET in association with ITTO, Japan and IUFRO Teakwood Working Party (Div 5.06.02) is organising a Side Event entitled “*New opportunities for Teak sector in the post COVID-19 Scenario*” on Thursday, 5 May 2022 under the **Sub-theme 3: The green pathway to growth and sustainability**. The Side Event will provide a unique opportunity for the global teak forestry community to consider the state and future of teak timber trade, particularly in the context of the recovery from the COVID-19 pandemic, while striving to achieve the Sustainable Development Goals. The key speakers and detailed programme schedule are shown in the flyer. All are cordially invited to the TEAKNET Side Event to be held on 5th May.

Please find more details in the congress webpage: <https://wfc2021korea.org/>

Contact : Dr. S. Sandeep, TEAKNET Coordinator, Email: coordinator@teaknet.org



Editorial Committee

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ITTO Teak Mekong Newsletter is a bi-monthly electronic newsletter of the Project Team which is intended for circulation among the stakeholders of global teak sector. The views expressed in the newsletter are those of the authors and do not necessarily reflect the views of the organization. The readers are welcome to express their opinions or pass on information concerned with teak. However, we reserves the information on the project and publishing through this newsletter for our esteemed readers.

Address all communications to:

TEAKNET Secretariat
International Teak Information Network
Peechi-680 653, Thrissur, Kerala, India
Tel: +91 487 2690396; Fax: +91 487 2690111
Email: secretariat@teaknet.org