



# Enhancing Conservation and Sustainable Management of Teak Forests and Legality of Wood Supply in Greater Mekong Sub-Region - (ITTO Project #PP-A/54-331)

**Funded by the Federal Ministry of Food and Agriculture of the Government of the Federal Republic of Germany (BMEL)**



**Activity #4  
ITTO BIENNIAL WORK  
PROGRAMME FOR 2018-2019  
(extended to 2021-2022)**

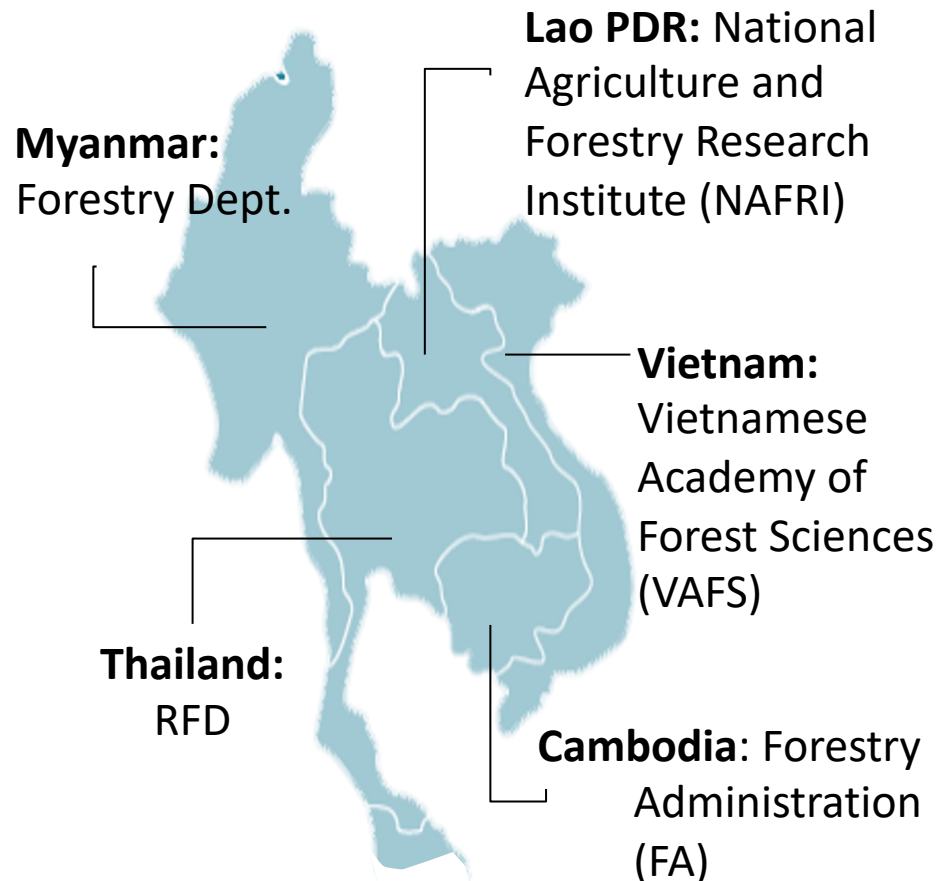
**The 56<sup>th</sup> Session of  
Committee on Forest Industry  
ITTC-58<sup>th</sup> , Yokohama, Japan**

# Partners of ITTO Teak Project

- At **ITTC 53 in 2017**, the Council approved a global teak program
- In 2018, the **Government of Germany (BMEL)** financed the teak project (USD1.2 Mill) in Mekong region for Mar 2019 – Feb 2022
- Launching Ceremony on 24 April 2019 in Bangkok



## ITTO: Executing Agency Implementing Agencies





# Objective & Outputs of Teak Project In Mekong

## Objective

To demonstrate legal and sustainable teak supply chains with the engagement of local communities, smallholders and government actors in the Greater Mekong Sub-region

**Output 1:** The conservation of teak genetic resources, sustainable management and use of natural teak forests and market accesses of teak from legal sources enhanced

**Output 2:** Community-based and smallholders teak forest management systems have been strengthened with improved legal and sustainable supply chains

**Output 3:** Regional and international collaboration, information sharing and knowledge management, networking, policy development and outreach on TEAK SFM strengthened

Teak log yard in Lampang Province in Thai



**ITTO-TEAK  
IN MEKONG**



*Bi-monthly online*

*Teak Mekong Newsletter*

June 2019 - Volume 1(1)





## **Activities of Output 1 (genetic conservation, management, use and market access)**

**1.1 Establish demonstration plots for sustainable teak forest management systems and pilot silvicultural systems** including coppicing as a regeneration method and teak agroforestry practices (e.g. bamboo management in natural teak forests) in on-farm teak growing for livelihoods of local communities and smallholders (Myanmar, Thailand).

**1.2 Review and analyze opportunities for improved market accesses** of teak wood and teak products from legal and sustainable sources in the five participating countries.

**1.3 Conserve teak genetic variation through improved management** of existing seed production areas, seed orchards, and provenance/progeny trials (, Lao PDR, Myanmar, Thailand).







## Activities of Output 2 (community based and small holders management)



2.1 **Support local communities and smallholders through establishment of demonstration plots** and field training on the different subjects

2.2 Carry out a **teak value chain analysis of smallholders to increase their access to markets** by improved primary processing as well as capital and market information (Myanmar, Thailand, and Vietnam).

2.3 **Facilitate the establishment of teak-based forest user groups** for the sustainable use of teak forest resources and agroforestry (Myanmar).



2.4 Review and **elaborate policy options to empower local communities and smallholders in planted teak** and teak management, and agroforestry systems to support sustainable livelihood programs (Myanmar, Thailand).



## Activities of Output 3 (regional and international collaboration)

3.1 **Produce and disseminate outreach and training material** on the conservation and sustainable management of teak forests and legal and sustainable supply chains

3.2 **Plan and organize two regional teak workshops to facilitate policy dialogue**, information sharing and knowledge management, stakeholder consultations and help expand regional cooperation on sustainable management of teak forests and legal and sustainable supply chains

3.3 **Support and facilitate teak networking in the Mekong Sub-region through ITTO's member countries and partner such as TEAKNET** and other regional cooperation frameworks to promote the conservation and sustainable management of teak forest resources

3.4 Support sharing lessons of the Greater Mekong Sub-region in promoting sustainable teak forest management and legal and sustainable supply chains at **the 4th World Teak Conference (2019 or 2020) in Ghana for improved global teak collaboration.**







## **Expected outcomes at the completion of the Activity**

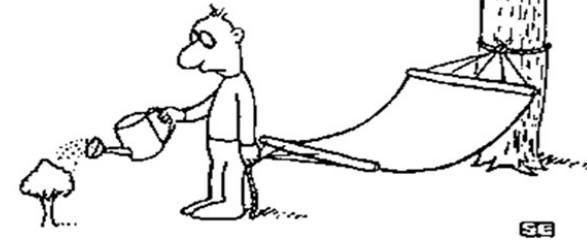
**Enhanced capacities of governments, local communities and small holders in planning, conservation and management of teak forest resources**

**Improved quality and management of teak genetic resources**

**Demonstrated legal and sustainable teak supply chains which improve market access of teak products**

**Enhanced dialogue, information and knowledge exchange among participating countries on sustainable teak forest management, production and sustainable supply chain management, as well as sharing experiences with wider audiences globally through participation in different events/fora.**

***Happiness grows  
From a tree!***





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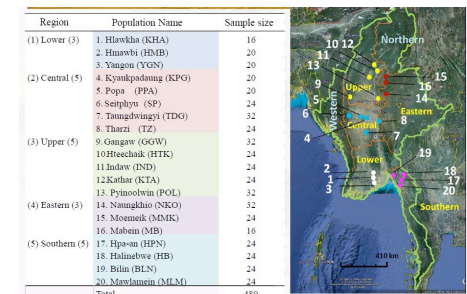
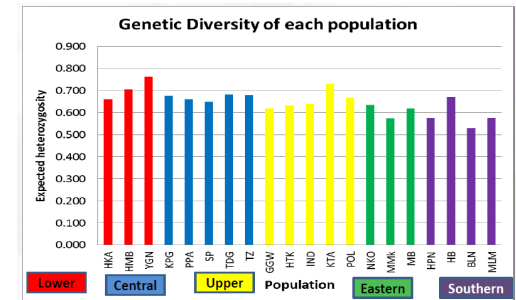


# Outputs and Activities

## Output 1: Conserve teak genetic variation, sustainable management and use, market access



- Laos: 170 mother trees in natural forest and seed sources identified
- Thailand: 3 clonal tests of (104 clones; >600 mother trees)
- Myanmar: clonal test, teak gene bank plantation
- Cambodia, Vietnam: demonstration plots for seed sources
- Opportunities for improved market access of teak (Myanmar) Analyzed







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# Outputs and Activities

**Output 2.** Community-based and smallholders teak forest management and agroforestry systems have been strengthened with improved legal and sustainable supply chains.

## Local communities and smallholders supported

### Capacity building & training

Country	No of trainings	No of participants
Cambodia	3	25
Laos	4	250
Myanmar	4	70
Thailand	7	165
Vietnam	6	163
<b>Total</b>	<b>24</b>	<b>673</b>





# Outputs and Activities

## Teak value chains analysis carried out



Tree growers



Middle men



Sawmill owners/  
furniture finishers



Retailers & consumers

- Teak industry was **well-established** in the region.
- Profits margin among the VC actors are **relatively fairly distributed in Vietnam (not Laos)**.
- Selling teak products (furniture) by **design is valued-added**.

### Vietnam

- Price of standing tree: USD130 (DBH 25-30 cm)
- Profit of middleman **10%**
- **Simple** regulation
- Transportation cost is cheap.

### Laos

- Price of standing tree: USD10-25
- Profit of middleman **39%**
- **Complex** regulation
- Transportation is costly.





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# Outputs and Activities

**Output 3.** Regional and international collaboration, information sharing and knowledge management, networking, policy development and outreach on the teak SFM

## Outreach and training materials produced and disseminated



**Inside this issue**

- 01 ITTO Teak Project Signing Ceremony
- 02 Project Launching Report
- 04 Launching Ceremony
- 05 Field Trip to Lampang Province

Welcome to the first edition of the online Teak Mekong Newsletter!

**Signing Ceremony of the Teak Project during the International Tropical Timber Council (ITTC) meeting at its 54<sup>th</sup> Session in Yokohama, Japan on 6 November 2018**

International Tropical Timber Organization (ITTO) launches project on sustainable teak management in Greater Mekong Sub-region entitled "Enhancing Conservation and Sustainable Management of Teak Forests and Legal and Sustainable Wood Supply Chains in the Greater Mekong Sub-region".

The Federal Republic of Germany through the Federal Ministry of Food and Agriculture (BMEL) financed the first stage of activity in the Greater Mekong Sub-region (GMS) covering 5 countries, namely Cambodia, Lao PDR, Myanmar, Thailand and Vietnam. The signing ceremony of the agreement between ITTO and the Government of Germany for the commitment of funds to the teak project was held during the International Tropical Timber Council (ITTC) meeting at its 54<sup>th</sup> Session in Yokohama, Japan on 6 November 2018.

Mathias Schwane, Germany, and Gerhard Diebel, Executive Director, ITTC, launching the project

For more information, please contact PK Thulayadas (thulayadas@ittonet.com) or Yonopet Teisara (f09y@ittonet.com)

**Invites you to the webinar**

ITTO-BMEL Project:  
"Enhancing Conservation and Sustainable Management of Teak Forests and Legal and Sustainable Wood Supply Chains in the Greater Mekong Sub-region" (PP-A/54-331)

**The 10<sup>th</sup> Monthly Webinar Meeting**  
**Tuesday, 07 December 2021**  
Cambodia, Laos, Thailand and Vietnam Times: 04:00 – 05:30 pm.  
Myanmar Time: 03:30-05:00 pm. Japan Time: 06:00-07:30 pm. India Time: 02:30-04:00 pm.

**Topic:**  
"Carbon Credits and Carbon Sequestration of Teak Forests and Teak Plantations"

**Dr. S Sankar**  
PhD in Soil Science From Friendship University Moscow

"Dr. Sankar has over 30 years of experience in Kerala Forest Research Institute as a soil scientist, agroforestry and human dimensions specialist. He has guided over 10 PhD students in various subjects starting from soil science to forest economics. Currently, he handles projects on carbon credits and carbon sequestration. In addition, he is an accredited EIA specialist by Govt of India."

### Topics

- Genetic improvement
- Commercial and smallholder plantations
- Wood quality
- Carbon storage
- Legality, supply chains & trade

10 webinar meetings during the COVID-19 pandemic

average height (H) and diameter at breast height (DBH) of the 8 YSG clones in planting sites in Lahad Datu, Sabah, 5 years after planting.  
Clone identity was changed. N: number of trees recorded.

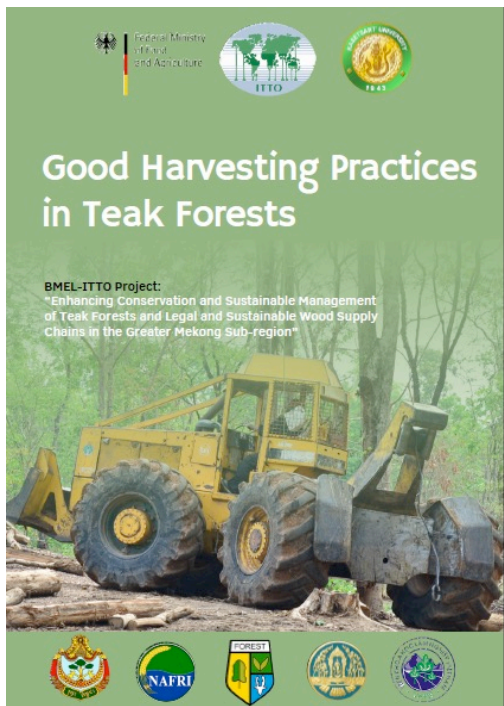
Clones	Site 1			Site 2		
	N	H (m)	DBH (cm)	N	H (m)	DBH (cm)
D	20	15.61	15.31	30	13.79	17.73
X	20	14.51	13.67	30	13.42	17.18
Z	20	13.88	14.44	30	13.71	17.62
D	20	16.9	15.55	30	15.31	14.62
C	20	15.29	16.62	30	13.54	17.26
E	20	15.66	16.00	30	13.7	17.88
K	20	17.45	15.34	30	13.27	14.88
B	20	17.26	17.99	30	15.54	17.23
Mean	160	15.84	15.80	240	13.78	16.82
MAI		3.2	3.2		2.8	3.4

19 bi-monthly issues

# Mass Medias



# Technical Reports & Booklets



# Academic articles

## Suitable Site Selection for Teak Plantations using GIS Technique at Phyu Township, Taungoo District, Bago Yoma, Myanmar

May Thet Htoo<sup>1</sup>, Nittaya Mainmit<sup>2</sup>, and Yongyut Trisurat<sup>2\*</sup>

<sup>1</sup> Sustainable Land Use and Natural Resources Management Program, Graduate School, Kasetsart University, Bangkok, Thailand

<sup>2</sup> Faculty of Forestry, Kasetsart University, Bangkok, Thailand

ARTICLE INFO	ABSTRACT
<p>Received: 26 March 2020                      Received in revised: 12 May 2020                      Accepted: 13 May 2020                      Published online: May 2020</p>	<p>This study describes the selection of suitable sites for large-scale commercial teak plantations at Phyu township, Taungoo District, Bago Yoma region, Myanmar. Geographic Information System (GIS) was applied to analyze seven variables relevant to a land requirement for a teak plantation, including topography (slope and elevation), climate (mean annual temperature and annual precipitation), and soil characteristics (soil pH, soil depth and soil texture). All relevant secondary data were collected and downloaded and subsequently transformed into grid-based GIS with a resolution of 200-m. Besides the land requirement parameters, we used the FAO matching technique to determine site classes for teak plantations. Each parameter was weighted and ranked according to its importance and contributions to the growth of teak trees. The accumulated scores were reclassified into four classes (i.e., '0' as unsuitable, '1' as marginally suitable, '2' as moderately suitable, and '3' as highly suitable). By masking the highly and moderately suitable areas with the existing forest, urban areas as well as water bodies, current land use map, and the practically suitable areas cover approximately 932 km<sup>2</sup> (42%) of the study area, and they are potentially promoted for teak plantations.</p>
<p><b>Keywords:</b>                      Bago Yoma region / Geographic Information System / Suitability / Teak</p>	
<p>* Corresponding author:                      E-mail: horyyut@ku.ac.th</p>	



<https://web.facebook.com/ITTO-TEAK-IN-Mekong-393301941225768>





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# Outputs and Activities

## Regional and National Workshops



Sustainable Value-added Teak products  
for Green Economy (2<sup>nd</sup> Reg. Workshop, Bangkok, 2 September 2022)



1st Regional Workshop on Sustainable Teak  
Forest management during 24-27 Sep. 2019  
in Yangon, Myanmar



National Teak Forum in LAO PDR:  
“Sustainable Teak Value Chains for  
Sustainable Local Development”  
19-20 February 2020  
Vientiane & Luang Pha Bang, Lao PDR







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# Outputs and Activities

## TEAKNET Side Event at XV World Forestry Conference



### ITTO Teak Mekong Session

**Moderator:** Dr. Tetra Yanuariadi, ITTO Projects Manager: ITTO

#### **Opening Remarks**

ITTO Representative, Japan  
ITTO Focal Person, Ghana

*Sustainable Teak Management for Mekong Sub-region – Teak Mekong Project Overview and P*  
Yongyut Trisurat, Regional Project Coordinator, Kasetsart University, Thailand

*Efforts of Teak Genetic Conservation and Improvement and Value Chain in Laos*  
Vongvilay Vongkhamsoo, Forestry Research Centre, NAFRI, Laos

*Myanmar Efforts in Teak Genetic Conservation and Improvement and Myanmar Timber Legality (MTLAS)*  
Zar Chi Hlaing, Forest Research Institute, Yezin, Myanmar)

*Development of Teak Plantation and Value Chains to Support Vietnam Forest Industry*  
Tran Lam Dong, Vietnamese Academy of Forestry Sciences, Hanoi, Vietnam

*Cambodia's Teak Plantation and its Implications on Trade Access*  
Chheang Dany, Forestry Administration, Cambodia

*Thailand's Teak Plantation Industry and Market*  
Sapol Boonsermsuk, Royal Forest Department, Thailand

Launching Teak Book: 'Teak in Mekong for a Sustainable Future'

Wrap-up and Closing Remarks  
Dr. Ma Hwan-OK, Senior Projects Manager, ITTO, Japan





# TOPICS

- Project Background
- Teak Ecology
- Natural Teak Forests & CC
- Teak Management & Logging
- Teak Plantations
- Teak Improvement
- Trade, Certification, Legality
- Way Forward



*27 chapters*  
*41 authors*

## Editors



# TEAK IN MEKONG FOR A SUSTAINABLE FUTURE



YONGYUT TRISURAT, HWAN-OK MA  
TETRA YANUARIADI, PROMODE KANT  
AND P.K. THULASIDAS  
Editors





**Organized by: Forestry Commission of Ghana, TEAKNET, ITTO, IUFRO and FAO**  
Accra, Ghana, 05-08 September 2022

**Supports from the ITTO-Teak Mekong Project:**

- Advisory Committee Member and Scientific Committee Member
- Conference Participants from Mekong Sub-Region countries
- Speakers (Keynote and session speakers)
- Sharing experiences and project's findings and progress
- Promoting the Conference for fund raising
- ITTO Special session: sharing outputs and outcome of ITTO Mekong Teak Project





**Thank you**

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