



**International Workshop**  
**“Highland Best Sustainable Agricultural Practices (Today) for Better Future Development”**  
**5 - 9 February 2024**  
**Chanaka Dhibesra Damri Royal Project Agricultural Research**  
**Royal Project Foundation (RPF), Chiangmai, Thailand**

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**1. Course Title**

**Highland Best Sustainable Agricultural Practices (Today) for Better Future Development**

**2. Duration**

5 - 9 February 2024

**3. Background and Rational**

On the Thai highlands, ethnic minority people have been socially, physically, and economically marginalized. They usually suffer from poverty and a lack of food security, causing continuation of slash-and-burn agriculture and expansion of farm areas into forests. With gratitude to His Majesty King Bhumibol Adulyadej the Great, the Royal Project was found. His initiatives, has not only enhanced the social and economic well-being of the hill tribe communities but also rehabilitated the highland watershed forests of the country and the region. His Majesty also formulated "The Sufficiency Economy Philosophy" (SEP) as a means towards empowering communities and enhancing local economic prosperity. By adopting good agricultural practices and SEP applications as guidelines, individuals and communities have gained knowledge and benefited from improved quality of life, balance, and resilience in an unstable and unpredictable socio-economic situation. Sustainability has been a growing concern for the economy and agriculture for several years due to the impact of environmental issues, climate change, air pollution, technological disruption, and the COVID-19 pandemic on people worldwide. Farmers can play a central role in ensuring a sustainable agricultural system is carried out to meet their knowledge and expectations.

This workshop has been organized with the collaboration of the Royal Project Foundation (RPF), Highland Research and Development Institute (HRDI) and Ministry of Foreign Affairs’s Thailand International Cooperation Agency (TICA), to equip the participants with a comprehensive understanding and hands-on experiences of Thailand’s Sufficiency Economy Philosophy (SEP) and the Royal Project Highland Sustainable Development Model (RPF Model).

The workshop also aims to promote knowledge of crop production under food safety standards across the entire supply chain, encompassing quality control, field management, including soil and

pest management, post-harvest handling, and customer delivery arrangements. This workshop will provide valuable insights from successful farmers who have achieved high-quality and consistent crop yields while adhering to food safety standards. Participants will have the opportunity to directly learn from these experiences and apply them to their own practices or in their own countries. Moreover, participants will be encouraged to actively contribute to their fellow workshop participants by sharing their own case studies on good agricultural practices.

#### **4. Course Objectives**

The objectives of this workshop are:

- 4.1 To introduce the Royal Project Model of Alternative Development (AD) under the SEP for the Highland Sustainable Development.
- 4.2 To highlight highland agriculture and development situation:
- 4.3 To provide participants with knowledge and understanding of the RPF Model concepts under the principle of SEP including the expansion the Royal Project's success across other highland areas;
- 4.4 To further provide participants with knowledge and experiences of the good sustainable highland agricultural practices to produce the food supply for future generations; and,
- 4.5 To provide a platform for participants to discuss and share good practices as well as building a concrete network.

**5. Course Structure:** The training course comprises 3 parts as follows:

**5.1. Lecture sessions:** which includes following topics:

1. Royal Project Model of AD under the SEP for the Highland Sustainable Development
2. Highland agriculture and development situations
3. Highland natural resources and environment management
4. Farming system on highland
  - Soil management
    - Soil health - farm mapping, traffic control, minimum & zero tillage
    - Soil biology - biologicals
    - Soil fertility - compost, cover crop, soil amendment
  - Integrated pest management
  - Postharvest management: processing, packaging, waste management and distribution
5. Highland smart farming system
6. Quality control and market development
  - Food safety standards (GAP, Organic and GLOBAL GAP)
7. Other key success factors

**5.2 Site visit:** Best practiced communities on sustainable farming practices (2-3 locations)

**5.3 Summary and Announcement:** on the knowledge and experience gained by the participating country to topic and activities of the workshop.

#### **6. Number of Participants**

30 - 35 participants (3-5 persons in each country)

## **7. Participants Requirement**

All participants must meet the minimum requirement listed below in order to be eligible to apply for the programme.

1. Have good proficiency and command of English language;
2. Those who work in rural development areas and related to highland agricultural development are most preferred; and,
3. Be required to prepare the country case report on the topic that related to the workshop.

### **Guideline for country case report**

- 1) Agricultural production situation in the country of participant, for example:
  - Food Safety Standard (Conventional / Organic / other)
  - Key Success / Best Practice of Production of crops such as Vegetable, Fruit, Legumes & Cereal, Cut flower & Ornamental, Herbs & spices, Native plants, Forest tree, etc.
  - Farmer Group and Association Management and Activity
  - Etc.
- 2) Presentation times: 15 min/country case (consisting 10 min presentation, 5 min discussion)
- 3) Presentation format verbal with: PowerPoint Standard or widescreen layout
- 4) Submit soft file: February 8, 2024

## **8. Participating countries: the invitation is extended to selected countries as follows:**

Southeast Asian and South Asian countries, including to 1) Lao PDR, 2) Timor-Leste, 3) Sri Lanka, 4) India, 5) Bhutan, 6) Nepal, 7) China, 8) Myanmar and other countries

## **9. Methodology/Venue**

The workshop will be conducted in Chiang Mai, Thailand at different venues listed below:

- Chanaka Dhibesra Damri Royal Project Agricultural Research and Development Centre
- Royal Project Foundation
- Highland Research and Development Institute (HRDI)

It is a job-oriented and experience-based course. Each topic will be addressed through lectures, onsite excursions, interactive discussions and Q&A sessions to deepen the content exploration. Some case studies relevant to the workshop topics from participants are also encouraged to promote extensive knowledge and experience-sharing among participants. An English-Thai translation will be provided.

## **10. Expected Results**

Upon completion of the workshop, participants are expected to:

1. Gain the knowledge with a deeper understanding of the Royal Project Sustainable Highland Development Model (RPF Model) and Sufficiency Economy Philosophy Principle (SEP) and the Application to the Sustainable Highland Community Development in an unsettled and unpredictable VUCA world;

2. Engage in extensive knowledge-sharing, idea and opinion exchanges, and experiences with fellow participants, lectures and facilitators; and,
3. Exposed to the Best Practices for Highland Sustainable Development in Thailand and Application to the participant from respective countries.

## 11. Workshop regulation

1. All participants must attend the workshop more than 80% of the total time.
2. Each participant needs to participate in exchanging his/her experience in the course topic.
3. Participants are required to fully participate in the workshop's assessment.

## 12. Institution

1. Royal Project Foundation; RPF  
Address: 910 Moo 3, Maehia, Muang, Chiang Mai 50100, THAILAND  
Contact person: Miss Kulthinee Phivnil  
E-mail: kulthinee@yahoo.com
2. Highland Research and Development Institute (Public Organization); HRDI  
Address: 65 Moo 1 Suthep Rd., Chiang Mai 50200, THAILAND  
Contact person: Miss Patinya Kanthatham  
E-mail: pkanthatham@hotmail.com
3. Contact Persons:
  - 3.1 **Project Manager:** Dr. Wanpen Lohacharoen, Royal Project Foundation  
Address: 910 Moo 3, Maehia, Muang, Chiang Mai 50100, THAILAND  
E-mail: w\_lohacharoen@hotmail.com
  - 3.2 **Technical Advisor:** Dr. Surachat Vuthapanich, Highland Research and Development Institute (Public Organization)  
Address: 65 Moo 1 Suthep Rd., Chiang Mai 50200, THAILAND  
E-mail: [surachatv@outlook.com](mailto:surachatv@outlook.com)

## 13. Expenditure/Funding

1. This programme is funded by Thailand International Cooperation Agency (TICA), Ministry of Foreign Affairs; Royal Project Foundation (RPF) and Highland Research and Development Institute (Public Organization) (HRDI).
2. Travel and financial arrangements: Successful participants will be offered an award which covers:
  - Return economy class airfare
  - Accommodation for the duration of training in Thailand
  - Social programme
  - Travel Insurance
  - Airport meeting service

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**International Workshop Programme on  
“Highland Best Sustainable Agricultural Practices Today for Better Future Development”  
5 - 9 February 2024, Chiangmai, Thailand**

**Monday 5 February 2024**

- 08.00 – 08.30 Registration - Chanaka Dhibesra Damri Royal Project Conference Room
- 08.30 – 09.00 Orientation  
Dr. Wanpen Lohacharoen, Head of Policy and Advocacy, RPF
- 09.00 – 09.30 **Opening Session**
- **Welcome Address**  
Mrs. Ureerat Chareontoh, *Director-General, Thailand International Cooperation Agency (TICA)*, Ministry of Foreign Affairs
  - **Opening Remarks**  
His Excellency Privy Councilor General Kampanat Ruddit  
Chairman of the Royal Project Foundation Executive Board
- 09.30 – 10.30 Keynote Session: **Alternative Development: A Strategy of Royal Project Development Model for Highland Sustainability**  
Prof. Emeritus Dr. Pongsak Angkasith, Royal Project Foundation Executive Board Member
- 10.30 – 10.45 *Coffee Break*
- 10.45 – 11.30 Keynote Session: **The Application of the Royal Project Towards Highland Sustainable Development Following the Sufficiency Economy Philosophy (SEP) Principle and the Bio-Circular-Green Economy Model (BCG)**  
Mr. Wirat Prabthuk, Director HRDI
- 11.30 – 12.00 **Developing Agricultural Practices Resilient to Climate Change Impact**  
Dr. Anchan Chompupoung, Assistant Director RPF
- 12.00 – 13.00 *Lunch*
- 13.00 – 13.40 **Land used: Land Utilization, Small Farm Mapping and Contour for Highland**  
Director, Land Development Operation Centre for Royal Project,  
Land Development Department
- 13.40 – 14.10 **Food Safety Standard (GAP, ORG, GGP), Royal Project System**  
Ms. Prapaiphan Kunkaew, Head of Quality Assurance System Department
- 14.10 – 14.25 *Coffee Break*
- 14.25 – 15.00 **Sustainable Agricultural Practices – From Farm to Table**  
Ms. Sornara Chawakunaporn, Head of Extension and Development Dept, RPF
- 15.00 – 15.45 **Precision Agriculture Technology Suitable for Highland**  
Dr. Surachat Vuthapanich, Advisor HRDI
- 15.45 – 18.00 Visit to the Royal Park Rajapruek
- 18.00 – 20.00 *Welcome Dinner at the Royal Park Rajapruek*
- 20.30 Return to the Hotel

## Tuesday 6 February 2024

- 08.30 – 09.00 Travel to Chanaka Dhibesra Damri Royal Project Conference Room
- 09.00 – 09.45 **Integrated Pest Management**  
Miss Kanjana Vichittakultavon, Head of Plant Biotechnology Department
- 09.45 – 10.00 *Coffee Break*
- 10.00 – 11.45 **Soil management – How Leading Australian Farmers Look After Their Soils**  
- Soil Fertility - Compost, Cover Crop, Soil Amendment  
- Soil Health - Traffic Control, Minimum & Zero Tillage, Regenerative Farming  
Mr. Robert Hinrichsen, Kalfresh Farming Co Queensland Australia
- 11.45 - 12.15 Visit the Royal Project's Plant Protection Section
- 12.15 – 13.00 *Lunch*
- 13.00 – 13.45 Visit the Royal Project's Biologicals Factory
- 13.45 – 15.45 **Depart for Muang Ang Village (Inthanon Royal Project Research Station, Jomthong, District, Chiangmai) (2 hr. from Chiangmai city)**  
*Coffee Break*
- 15.45 – 17.00 **Muang Ang Farmers Visit** (Jomthong District): A Case Study of the Best Organic Farming Practices  
Ms. Siriluk Sirikul, Agricultural Officer & Inthanon's Staff
- 17.00 – 17.30 Travel to Inthanon RPF Guest House
- 18.30 – 20.00 *Dinner*

## Wednesday 7 February 2024

- 07.30 – 08.30 Breakfast
- 08.30 – 09.15 **Sustainable Development Programme at Inthanon Royal Project Research Station**  
Mr. Jatuporn Paramee, Head of Inthanon Royal Project Research Station
- 09.15 – 10.45 **How Plants Farm “Microbes” - Understanding the Rhizophagy Cycle and Its Importance to Building Healthy and Resilient Crops.**  
Mr. Tim O'Grady, Business Manager, Bayer CropSciences Queensland Australia
- 10.45 – 11.00 *Coffee Break*
- 11.00 – 12.00 Touring Inthanon RPF Research and Development Facilities
- 12.00 – 13.00 *Lunch*
- 13.00 – 15.30 **Demonstration and Site Visit** (Khun Huay Haeng Research Unit, Inthanon Royal Project Station)  
**Turning Farm Waste to High Value Compost**  
**Assoc. Prof. Dr. Kamol Lertrat, RPF Consultant**  
Prof. Dr. Anat Tancho, RPF Consultant  
Mr. Jatuporn Paramee, Head of Inthanon Royal Project Research Station  
Mr. Pakpum Darapong & Mr. Adisak Mongkol (HRDI)
- 15.30 – 16.30 Visit Inthanon RPF Research and Development Facilities (sub-tropical fruit and cut flowers)
- 16.30 – 18.30 Return to the Hotel in Chiang Mai City, Evening Free

## Thursday 8 February 2024

- 07.30 – 09.00 **Site Visit: Depart for Maesamai Royal Project Development Center, Maerim District Chiangmai (1 hr. from Chiangmai city)**
- 09.00 – 10.30 **Sustainable Development Programme at Maesamai Royal Project Development Center**  
Mr. Annop Premasthian, Head of Maesamai Royal Project Development Center
- 10.30 – 10.45 *Coffee Break*
- 10.30 – 11.30 **Building Young Smart Farmer**  
Mr. Annop Premasthian, Head of Maesamai Royal Project Development Center  
Maesamai Staff  
Ms. Nattakrita Somseang, Agricultural Officer
- 11.30 – 12.00 **Depart for Royal Rose Garden at Thung Roeng Royal Project Development Center), Hang Dong District, Chiang Mai (0.5 hr. from Maesamai)**
- 12.00 – 13.00 *Lunch at Royal Rose Garden*
- 13.00 – 14.00 Depart to Chanaka Dhibesra Damri Royal Project Conference Room
- 14.00 – 14.45 **Postharvest Management - To Achieve the Best Possible Quality and Return**  
Mr. Manot Plakrud, Chief of Product Handling Division, RPF  
Mr. Chaipichit Chuamuangphan, Agricultural Officer, RPF  
Mr. Noppol Chanhom, Head of Packing Factory, RPF
- 14.45 – 15.00 *Coffee Break*
- 15.00 – 15.45 **Farmer-oriented Marketing Approach**  
Ms. Sarisa Mekmongkhon, Chief of Sustainable Business Development Division, RPF
- 15.45 – 16.45 **Visit to Postharvest Handling Unit**  
- **Postharvest Management**  
- **Value-added Vegetable Products**  
- **Waste Management & Recycling**
- 16.45 – 17.30 **Visit to Royal Project Shop**
- 17.30 – 20.00 *Northern Khantoke Dinner at Kum Khantoke*
- 20.00 Return to the Hotel

## Friday 9 February 2024

- 08.30 – 09.00 Depart to Chanaka Dhibesra Damri Royal Project Conference Room
- 09.00 – 10.45 **Share and Learn Session: Key Success Factors**  
Country Case Studies from Participants
- 10.45 – 11.00 *Coffee Break*
- 11.00 – 11.30 **Wrap up Discussion**  
Dr. Surachat Vuthapanich, Advisor HRDI
- 11.30 – 12.00 **Closing Remark and Certificate Awarding Ceremony**  
Prof. Emeritus Dr. Pongsak Angkasith, Royal Project Foundation Executive Board Member
- 12.00 – 13.00 *Lunch*
- 13.00 **Sightseeing Chiangmai City**

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