



2017

Annual Plan Landmark Program





2017 Annual Plan for Landmark Program

Seoul, the Republic of Korea

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<Asian Forest Cooperation Organization (AFoCO)>

AFoCO is a regional forest cooperation focusing on action-oriented field activities while ensuring synergies and complementation of existing cooperation, regional and international organizations, and aims to broaden the regional scope to wider Asia. AFoCO aims to strengthen regional forest cooperation, undertake projects and translate sound forest policies and proven technologies into action with a mission to rehabilitate degraded forest land and to prevent deforestation and forest degradation in the context of sustainable forest management as well as under the broader scope of addressing the impact of climate change.

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EXECUTIVE SUMMARY

This document covers progress on all activities under the Landmark Program in year 2017 from January to December.

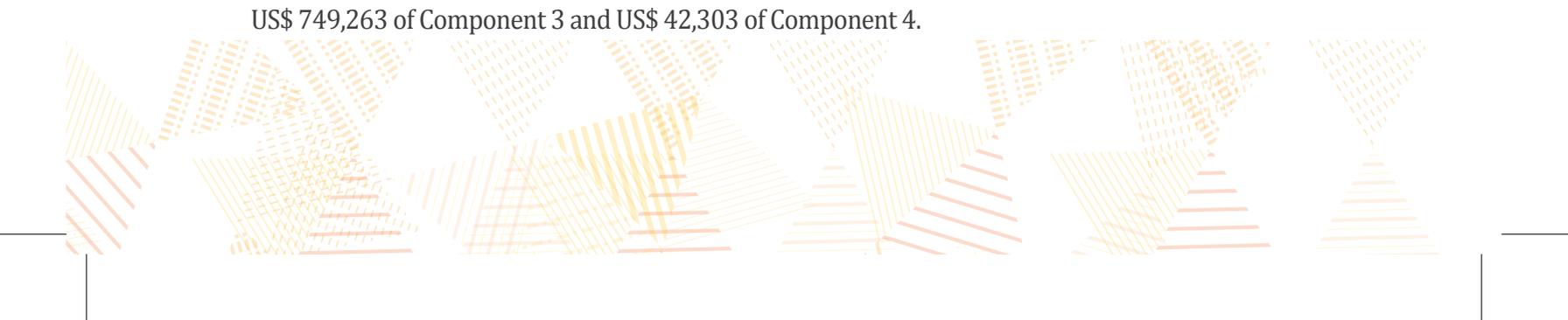
The Landmark Program was established with long-term goals under a holistic approach of “Restoring Degraded Forest in Southeast Asia as a Model for a Greener Asia”. Following the approval by the 3rd Session of the AFoCo Governing Council held on 18 October 2013 in Singapore, the 10-year Landmark Program has been implemented since 2014 with a total budget of USD 16.6 million.

As a regional program to provide the practical model for forest rehabilitation in the region and to narrow technical gap among the regions, it is comprised of four components: 1) Establishment of regional education and training center; 2) Development of education and training programs for capacity building; 3) Restoration of degraded forest regions; and, 4) Development of advocating activities. The goal of the program is to strengthen the capacity of forest management against degradation and deterioration of forests and sustainable forestry in Southeast Asia.

In 2017, the Landmark Program has objectives by component as follows. Component 1 aims to complete the building construction, provide the equipment for education and training courses and scientific research, and develop the main framework for RETC operation and management. Component 2 aims to implement two training courses with textbook development based on the needs of the Southeast Asian region and provide a scholarship program for higher education in the field of forestry in the Republic of Korea. Component 3 aims to implement the restoration activities in line with capacity building and public awareness activities in cooperation with local communities targeting sustainable forest management. Component 4 aims to promote the Landmark Program activities and launch the RETC website to disseminate the relevant information and knowledge.

The document will introduce the plan with three sections. “Background” describes that overall direction of the program with 2017 annual objectives of each component. “Component Description for 2017” shows implementing regions and budget by component and implementation agencies and staff under the Landmark Program. The last section of “2017 Activity Plans for the Landmark Program” describes plans by each component, providing basic direction, implementation procedure and tentative schedule, organizational arrangement and annual budget plan.

The Landmark Program in 2017 is implemented by the Interim Secretariat for Asian Forest Cooperation Organization (AFoCO) and the budget with US\$ 2,439,616 for the year in total. The detailed budget of each component is US\$ 1,379,692 of Component 1, US\$ 268,358 of Component 2, US\$ 749,263 of Component 3 and US\$ 42,303 of Component 4.





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I. BACKGROUND

The region of the Association of Southeast Asian Nations (ASEAN) lost about 5.4 million ha of forest cover (2005-2010), and the degradation of natural forests continues apace (FAO, 2011). Deforestation is concerned remarkably with unsustainable exploitation of forests by entrepreneurial and industrial concessioners. In this context, the prevention of deforestation and forest degradation in a sustainable manner is one of the top priorities in ASEAN countries.

The Landmark Program is focused on the sustainable and harmonious development of ASEAN Member States under the framework of Initiative of ASEAN Integration. For this purpose, the program aims to strengthen the capacity for scientific assessment and management of regional issues in the forestry sector, as well as academic research in the Southeast Asian region. The program will also contribute to the sustainable socio-economic development of local communities by raising public awareness and promoting participation in the conservation and management of forest ecosystems while prioritizing the needs of CLMV countries (Cambodia, Lao PDR, Myanmar and Viet Nam).

The Landmark Program is well on track and in 2017, the program's fourth year of implementation, project implementation will be improved and accelerated. For Component 1, the establishment of the AFoCO RETC was planned to be completed in 2016, but it was not achieved due to the construction delay. Targeting to open the center in 2018, the building construction will be completed by the end of this year. Subsequently, equipment for education and training courses and scientific research will be provided, and preparation work for the implementation of training courses in the center will be carried out. Lastly, the main framework for RETC operation and management will be developed in cooperation with the Forest Department of Myanmar.

Component 2 consists of two main parts – short-term training courses and a scholarship program. Two (2) training courses targeting government officials at the technical level will be organized in 2017. The training course on Community Based Forest Management will be held in September while the Forest Rehabilitation training course will be in December. The Landmark Scholarship Program (LSP) will provide scholarships to three (3) recipients (2 MSc students and 1 PhD student) who will commence their studies in March 2018.

Component 3 includes three (3) forest restoration projects aimed at sustainable forest management in Cambodia, Lao PDR and Viet Nam. This year, the total plantation area in the projects sites is 255 ha, and plantation activities will be conducted together with forest protection, capacity building and public awareness activities in cooperation with the local communities.

Activities under Component 4 include various promotional activities for the Landmark Program. This year, the official RETC website will be made accessible to prospective trainees and the public in order to disseminate relevant information and materials related to the training courses. Other regular publications will support the promotion of projects and events under the Landmark Program, while advocating the conservation and sustainable use of forests.



II. COMPONENT DESCRIPTION FOR 2017

1. Implementing Regions by Component

Component	Implementing Regions
Component 1	- Seed and Seedling Center (SSC) of Forest Department of the Ministry of Natural Resources and Environmental Conservation, Ye-Twin-Kone village, Hmawbi Township, Yangon Region, Myanmar
Component 2	- Implementing Agencies in AFoCO Member Countries
Component 3	- Khun Ream, Siem Ream Province, Cambodia - Paksong District, Champasak Province, Lao PDR - Sangthong District, Vientiane Capital, Lao PDR - Thai Binh Province, Viet Nam
Component 4	- AFoCO Member Countries

2. Annual Budget by Component

Component	Budget (USD)
Component 1	1,379,692
Component 2	268,358
Component 3	749,263
Component 4	42,303
Total	2,439,616

3. Implementing Agency and Staff

3.1 The Secretariat

Position	Assigned Task
- Project Manager	Management of four Component
- Project Manager for RETC	Component 1
- Project Manager for Education & Training	Component 2
- Project Manager for Restoration Projects	Component 3

3.2 Implementing Countries

Country	Position / Agency	Assigned Task
Myanmar	Project Director and Project Team (Forest Department)	Establishment of RETC
Cambodia	National Project Director and Project Team (Institute of Forest and Wildlife Research and Development under Forestry Administration)	Restoration project
Lao PDR	National Project Director and Project Team (Department of Forestry)	Restoration project
Viet Nam	National Project Director and Project Team (Viet Nam Administration of Forestry)	Restoration project







III

• 2017 ACTIVITIES PLANS FOR THE LANDMARK PROGRAM







1. Establishment of the AFoCO Regional Education and Training Center (AFoCO RETC) (Component 1)

1.1 Basic Direction

Component 1, “Establishment of the AFoCO RETC” consists of three implementation sectors as follows: 1) Architectural Construction; 2) Equipment Provision, and; 3) AFoCO RETC Operation & Management. The Architectural Construction sector is composed of building construction and landscaping. The Secretariat will establish the RETC Field Office at the construction site and dispatch the Project Manager to supervise the construction process until the completion of the RETC construction. The Equipment provision sector will cover the provision of necessary equipment for scientific research as well as the implementation of education and training programs by stages after the completion of architectural construction. The AFoCO RETC Operation & Management sector will provide the financial support for the RETC operation and management including staffing after the official launch of the AFoCO RETC.

In accordance with the Rules of Procedure (ROP) of the Steering Committee for Component 1, all activities under Component 1 will be implemented according to the decisions and general guidance of the Steering Committee, which is comprised of representatives from the Korea Forest Service (KFS), the Ministry of Natural Resources and Environmental Conservation of Myanmar (MONREC) and the Secretariat.

1.2 Implementation Procedure and Tentative Schedule

The main activities of Component 1 in 2017 are as follows: 1) Completion of the RETC construction and landscaping; 2) Equipment provision for education and training programs, and; 3) Development of the RETC operational framework and staffing management plan.

1.2.1 RETC construction and landscaping

Selection of subsequent construction company: As the previous contract for the RETC construction was terminated on 17 November 2016, the Secretariat is planning for the selection of new construction company. The subsequent construction company will be selected by Limited Competitive Bidding based on the Pre-Qualification (PQ) process with a Lump-sum delivery method. Only pre-qualified companies would be invited to bid for the construction contract as an eligible bidder. The minimum qualification to be eligible for bidding is to provide a performance bond guarantee rate covering at least 20% of the contract price. The eligible bidders will be required to attend the Pre-Bid Conference and Site Orientation, which will be held at the construction site in Yangon, Myanmar. An evaluation committee comprising of 1 staff from the AFoCO Secretariat and 4 construction experts will be organized to evaluate the bids according to the following point system: 1) Technical Proposal (15 points); 2) Bid Price (60 points); and 3) Credit Rating (25 points). The bidder who obtains the highest total points after the evaluation of bids

will be selected as the priority bidder, and companies who provide performance bond guarantee rates higher than 20% of the contract price will obtain additional points which is proportional to the given rate within the scope of the Credit Rating score. The contract will be awarded following the negotiation on the contract price and technical issues. The detailed procedure and tentative schedule for the bid is summarized in Table 1-1.

Table 1-1. Bidding process and its tentative schedule

Main Process for Bidding	Schedule
Development of Instructions to Bidders & Bid Notice	27 December 2016
Submission of Prequalification (PQ) Documents & Evaluation	04 January 2017
Completion of Drawing for Necessary Design Changes	06 January 2017
Issuance of ITB (Invitation to Bid) for Prequalified Bidders	09 January 2017
Bid Conference & Site Orientation (Yangon, Hmawbi T/S, Myanmar)	19 January 2017
Submission of Bid Documents	17 February 2017
Selection of Priority Bidder	2 March 2017
Contract Negotiation & NOA (Notice of Award) for Successful Bidder	17 March 2017
Conclusion of Contract	23 March 2017

Design Changes: Prior to the bidding, the RETC design will be changed in part to reduce the construction cost without significantly affecting the building functions and design concepts, in consideration of local conditions of Myanmar. Design changes will include air conditioning and ventilation system, finishing material and method for both exterior & interior walls, and window schedule for corridors. Details of the design changes will be presented by the CM agency for the Secretariat's approval before the completion of drawing, and revised drawings on the design changes will be issued 10 days ahead of the Pre-Bid Conference.

Building construction: The AFoCO RETC will be constructed as a two-story building with a total floor area of 5,014.4 m² that divided into 3 functional Zones: 1) Education & Training Zone (Zone A); 2) Accommodation Zone (Zone B), and; 3) Support Zone (Zone C). As per the space program revised in 2016, each zone will be composed of the facilities shown in Table 1-2.

The RETC construction is tentatively scheduled to resume in April 2017, and construction is expected to be completed by the end of 2017. The total progress rate of the RETC construction achieved in 2016 is 51.25% as shown in Table 1-3. The main process and tentative schedule for the remaining construction works is summarized in Table 1-4. The detailed master schedule will be developed after the selection of the subsequent construction company.



Table 1-2. Space program for the AFoCO RETC (Altered parts are highlighted)

Zone	Facilities	Unit Area (m ²)	No. of Rooms	Total Area (m ²)
Education & Training Zone (Zone A)	Class room	83.6	3	250.8
	Laboratory	123.5	2	247.0
	Multi-Media Room	90.4	1	90.4
	Administration Office	56.0	2	84.5
	Director's Room	28.6	1	68.2
	Meeting Room	68.2	2	136.4
Accommodation Zone (Zone B)	Trainee's Dormitory	27.8	14	389.2
	Trainer's Dormitory	27.6	10	276.0
	Laundry Room	28.4	2	56.8
Support Zone (Zone C)	Conference Hall	361.6	1	361.6
	Dining Hall & Kitchen	60.0	1	60.0
	Exhibition Hall	64.6	1	64.6
	Information & Management Office	32.0	1	32.0
	Maintenance Workshop	236.3	1	236.3
	Religion Room (Male & Female)	85.8	2	
	Recreation & Fitness Room	86.5	1	171.7
	Lounge (Community Room)	86.4	1	172.2
Others	Lobby, Corridor, Toilet, Technical Room, Pent House, ETC.	2,096.1	-	2,096.1
	Main Storage	54.5	1	54.5
	Guard House	9.0	1	9.0
	Others (Generator & Transformer Room, Gas Storage, Deep well house, etc.)	157.1	-	157.1



Table 1-3. Total progress rate of the RETC construction achieved in 2016

Unit Construction Process	Proportion	Total Progress Rate	Achievement in 2016
1. Temporary Work	1.14	1.14	100
2. Architectural Work	36.22	17.81	49
3. Structural Work	16.41	16.26	99
4. Mechanical Work	19.23	5.73	30
5. Electric Work	18.11	3.91	22
6. Miscellaneous Work (Civil work & Annexed bldg. construction)	8.89	6.67	75
Total	100	51.52	-

Table 1-4. Prospective construction process and tentative schedule

	Unit Process				Schedule in 2017
	Zone A	Zone B	Zone C	Annexed Buildings	
1. Building Construction					21 Apr. ~ 20 Dec.
1-1. Structural work			○*	○**	21 Apr. ~ 20 May
1-2. Architectural Work					21 Apr. ~ 31 Nov.
- Brick work		○		○	21 Apr. ~ 05 Jun.
- Plastering work		○	○	○	01 May ~ 31 Aug.
- Door & Glazing work	○	○	○		06 Jul. ~ 20 Aug.
- Stone & Tiling work	○	○	○	○	06 Jul. ~ 31 Nov.
- Painting work	○		○		01 Sep. ~ 15 Nov.
- Interior finishing	○	○	○	○	16 Sep. ~ 31 Nov.
1-3. Mechanical & Electric Work	○	○	○	○	06 May ~ 31 Nov.
2. External Civil Work					21 Oct. ~ 31 Nov.
3. Test Operation					01 Dec.~20 Dec.

* Exhibition Hall Roof Parapet / ** Generator & Transformer Building

Landscaping: Based on the Master plan for the RETC landscaping, the RETC landscape has been redesigned in consideration of the local conditions of Myanmar as shown in Figure 1-1. The RETC landscape covers a total area of 8,876 m² with 28 plant species. The Forest Department of Myanmar (FD) will provide some planting materials (a total of 855 plants from 14 tree species) for the RETC landscaping as an in-kind contribution, and the final landscape design will be determined through further consultation with the FD. The tentative schedule for the RETC landscaping is shown in Table 1-5.

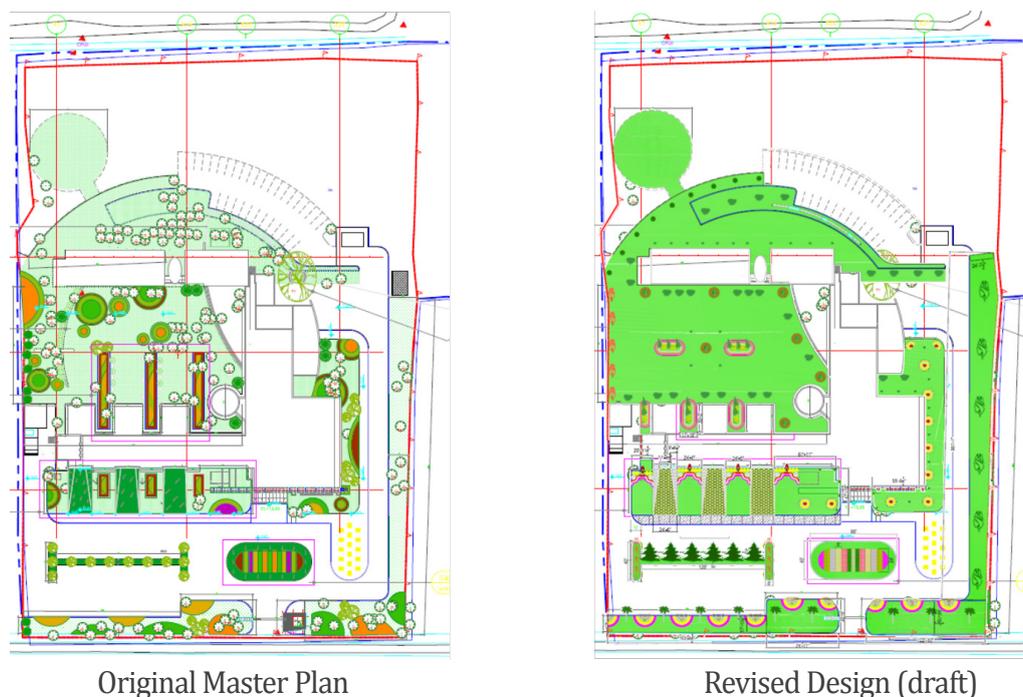


Figure 1-1. Design proposal for the AFoCO RETC landscape

Table 1-5. Tentative schedule for the AFoCO RETC landscaping

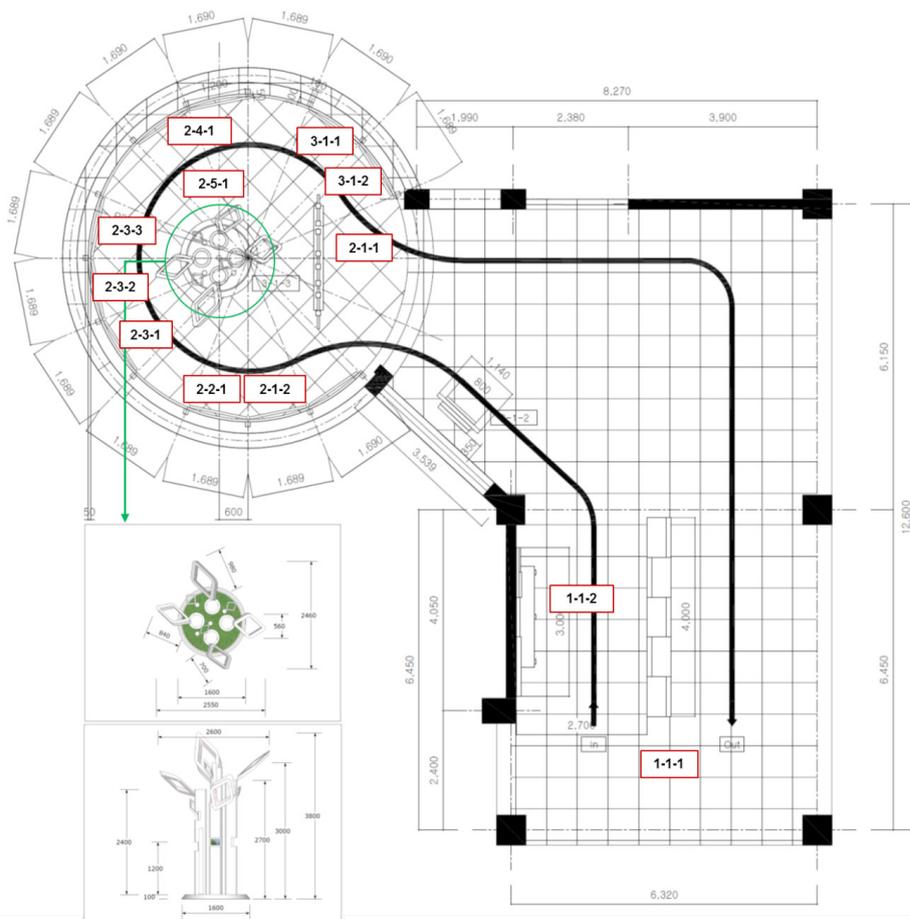
Description	Schedule in 2017
Technical consultation with the FD on the development of the final landscape design, including the selection of planting materials	March ~ May
Conclusion of service contract for landscaping	June
Technical consultation with the construction company on the landscaping schedule & necessary field preparations	
Field preparations (field nursery and ground leveling)	July ~ August
Field Work	September ~ October

1.2.2 Equipment provision for education and training programs

This sector involves the provision of basic equipment for RETC operation in 2017. This includes Furniture, Fixture & Equipment (FF&E) for training and education activities including the necessary signage and display items for the exhibition hall. A total of 154 FF&E items exclusive of general electronic appliances will be procured via the Lump-sum delivery method, and eligible suppliers will be selected in Korea by Open Competitive-Lowest Price Bidding. General electronic appliances will be directly purchased in Myanmar to obtain local warranty services. The detailed signage schedule, which includes its location and spacing based on the design specifications, as well as its procurement plan, will be developed in consultation with the CM agency by March 2017. The Exhibition hall will compose of 3 thematic zones as shown by Figure 1-2 and 1-3. In accordance with the design specifications, all items to be displayed at the Exhibition hall will be produced in Korea in modular forms for easy shipping and assembly on site.



Figure 1-2. Perspective of the exhibition Hall



Zone 1: Forests of Asia		Zone 2: AFoCO	
1-1-1	Forests of Asia / Asia's Forests	2-1-1	About AFoCO
1-1-2	Crisis in Asia's Forests	2-1-2	AFoCO Agreement
		2-2-1	History & Milestone
Zone 3: Towards a Greener Asia		2-3-1	AFoCO Activities
3-1-1	Future of Greener Asia	~ 2-3-3	(Cooperation Project)
3-1-2	Landmark Program for a Greener Asia	2-4-1	Landmark Program
		2-5-1	AFoCO Tree of Life

Figure 1-3. Floor plan and space program for the exhibition Hall

In accordance with the MOU for the establishment of the AFoCO RETC in Myanmar, the RETC Field Office will proceed with the tax exemption process on equipment importation in consultation with the FD. The tentative schedule for the equipment provision is shown in Table 1-6. The items to be manufactured in Korea (several items for the signage and display modules in the exhibition hall) will be prepared by mid-May 2017 for the simultaneous shipment of all necessary items for equipment provision.

Table. 1-6. Tentative schedule for the equipment provision

Description	Schedule in 2017
· Bidding process for the selection of equipment supplier	May ~ June
· Development of Signage schedule	
· Official process for the tax exemption in Myanmar	July ~ September
· Item preparation	
· Shipping, Customs Clearance and Material Inspection	October
· On-site installation	November ~ December

1.2.3 Development of RETC organization and operation strategies

In accordance with the decision by the 4th SC Meeting held on 3 November 2016 in Nay Pyi Taw, Myanmar, the basic framework of the RETC administrative organization has been determined as shown by Figure 1-4.

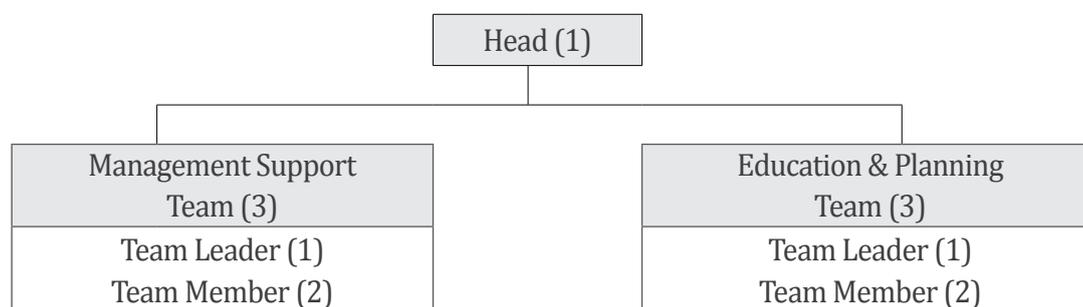


Figure 1-4. Basic framework for the RETC administrative organization

For the staffing of the RETC administrative organization, the Secretariat will designate the Team Leader of the Education & Planning Team, and the FD will assign their current officers for other positions. The Director of the Training and Research Development Division (TRDD) under the FD will be assigned as a non-standing Head, and the Team Leader of the Management Support Team assigned by the FD will also serve as the Acting Head of the RETC. Detailed scope of necessary staffing in addition to the basic administrative organization will be developed by May 2017 in consultation with the FD. The Rules of Procedure (ROP) for the RETC operation and Staff Regulations will be developed in consultation with the FD 3 months ahead of the building completion. The detailed manuals for facility operation and maintenance will be also prepared in consultation with the CM agency 1 month ahead of the building completion. The tentative schedule for the development of the RETC organization and operation strategies is shown in Table 1-7.



Table 1-7. Tentative schedule for the development of the RETC organization and operation strategies

Description	Schedule in 2017
Development of draft guidelines for RETC operation and Staff Regulations	March ~ May
Development of final framework for RETC Organization	June
Development of final ROP for RETC operation and Staff Regulations	September
Development of user manual for facility operation and maintenance	November
Staff orientation and test operation	December

1.2.4 Summary of the main activity schedule in 2017

The overall activity schedule in 2017 by implementation sector under Component 1 is summarized in Table 1-8.

Table 1-8. Overall activity schedule in 2017 by implementation sector

Implementation procedures	Schedule in 2017											
	1	2	3	4	5	6	7	8	9	10	11	12
1. RETC Construction and Landscaping												
- Bidding for the selection of subsequent construction company	■	■	■	■								
- Building construction				■	■	■	■	■	■	■	■	■
- Landscaping									■	■	■	
- Test operation												■
2. Equipment Provision												
- Bidding for the selection of equipment supplier					■	■	■	■				
- Item preparation & Tax exemption process							■	■	■	■		
- Shipping, Customs clearance and Material inspection										■	■	
- Equipment installation											■	■
3. Development of RETC Organization and Operation Strategies												
- Development of organization structure			■	■	■	■	■	■				

1.3.1. Consultation Body

The Consultation Body consists of the Steering Committee and the Working Group. The Steering Committee will function as a decision-making body to supervise and decide on matters related to project implementation according to the MOU for the establishment of the AFoCO RETC. The SC is comprised of 1 representative from KFS, 2 representatives from MONREC (1 each from FD and Ministry Office of MONREC) and 1 representative from the Secretariat.

The Working Group is a consulting body that discusses technical issues related to project implementation and assists the SC in decision-making processes. The Working Group is currently comprised of the Project Manager (PM) for the Landmark Program, the PM for the AFoCO RETC, the Project Director and Field coordinator from the FD, and a technical official from the KFS. If the occasion calls for it, all parties concerned with the project implementation, including the representatives of service contractors, will be invited to join the Working Group Meeting.

After the official launch of the RETC, the administrative staff of the RETC will be invited to join the Working Group as regular members or substitutes for some of the current members.

1.3.2. Implementation Body

The Implementation Body consists of the AFoCO RETC Field Office and the Project Management Team under the FD. In accordance with the general guidelines of the Steering Committee, all activities under Component 1 will be conducted through close cooperation within the Implementation Body. The organizational structure of the Implementation Body is depicted in Figure 1-6.

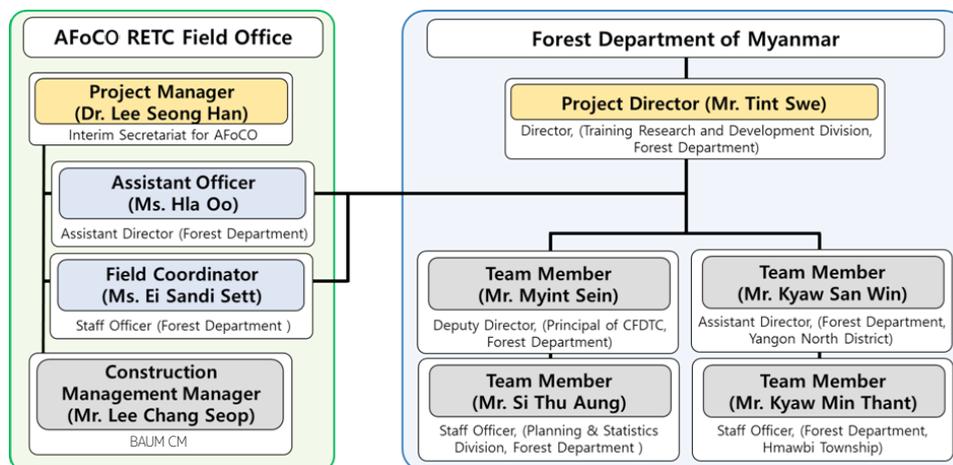


Figure 1-6. Organizational structure of the Implementation Body

In accordance with the Rules of Procedure of the operation of the RETC Field Office, the RETC Field Office is functional until the completion of the RETC construction. The current membership of the Implementation body will be substituted with the RETC operating organization after the official launch of the RETC in 2018.

1.4 Annual Budget Plan

The total annual budget for Component 1 in 2017 is 1,379,692 USD. The detailed list of items and the respective budget expenditures and relevant budget allocation is described in Table 1-9.

Table 1-9. Budget Plan for the Component 1 in 2017

Items	Budget (USD)
1. Building Construction	907,137
2. Equipment Provision	349,650
3. Field Office operation	122,905
Total	1,379,692 USD



2. Development of Education and Training Programs for Capacity Building (Component 2)

2.1 Training Courses

2.1.1 Basic direction

Component 2 of the Landmark Program, “Development of Education and Training Programs for Capacity Building”, aims to enhance government officials’ abilities to manage forests sustainably by increasing their knowledge and understanding on relevant topics as well as providing greater access to advanced technology. It will also facilitate the exchange of knowledge and experiences through the building of networks among ASEAN Member States (AMS) in the forestry sector. Before the RETC is ready for operation, training courses will be conducted by the Secretariat.

• Duration:	1 week
• Venue:	Relevant institutions/organizations
• Organizer:	Secretariat and relevant institutions/organizations
• Target Participants:	Current government officials of the 10 AMS nominated by each Member Country
• No. of Trainees:	Approximately 10-20 persons per training

2.1.2 Tentative training course schedule

In 2017, there will be two (2) selected training courses targeted at training a total of 20 trainees within the budget of 59,308 USD budget. The training topics are 1) Community-based Forest Management and 2) Forest Rehabilitation. The specific information for each training course are described in Table 2-1. The two training courses were decided on after considering the needs and interests of the AMS, as well as the implementation strategy of training courses at the RETC.

Table 2-1. Training courses in 2017

Courses	Date / Venue	Organizer	Num. of Trainees	Budget (USD)
1. Community Based Forest Management	Sep./Thailand	Sec. and RECOFTC	10	29,654
2. Forest Rehabilitation	Dec./ROK	Sec. and PSPS	10	29,654
Total			20	59,308

The plans for each training course, including training information, curriculum and budget, are summarized in Annex 1. The detailed plan for each training course will be developed according to the 2017 operating plan.

Annex 1 - 2017 Training Course Plans

▪ Community Based Forest Management (Conflict Mediation and Governance)

1. Course Information

▪ Date / Location	: September / Thailand
▪ Organizers	: Secretariat and the Center for People and Forests (RECOFTC)
▪ Target Participants	: Government officials dealing with conflict management and governance in forestry
▪ Number of Trainees	: 10
▪ Training Objectives	: 1) To allow participants to become certified conflict mediators with advanced skills in communication, negotiation, and planning 2) To allow participants to apply their understanding of natural resource governance to maximize effectiveness in their day-to-day work

2. Training Curriculum

Training Component	Topic/Activity	Hours	Remarks
Lectures, Practical Exercises and Discussions	Conflict in Different Stages and Aspects of Forest Trade and Management	3	
	Roles as a Mediator	3	
	Stages of Mediation Process	4	
	Natural Resource Governance	3	
	Basic Concepts of Governance and its Implications	4	
Field Trip	Visit Study Site and/or Relevant Organization	8	
	Field Trip Reflection	2	
Participatory Exercises	Country Report	2	
	Action Plan	3	
	Group Exercise and Wrap-up	4	
Others	Opening Ceremony (Orientation & Ice-breaking)	2	
	Training Evaluation and Landmark Program Survey	1	
	Closing Ceremony	1	
Total Training Hours		40	

3. Budget (USD)

Budget Items	Budget (USD)	Remarks
Airfare & Transportation [*]	7,000	700USD x 10 persons
Accommodation ^{**}	2,240	28USD/night x 5 nights x 10 persons at RECOFTC; 60USD/night x 1 night x 14 persons at field site
DSA [*]	2,100	35USD/day x 6 days x 10 persons
Meals & Snacks ^{**}	2,200	30USD/day x 5 days x 10 persons (breakfast, lunch, snacks); 35USD x 20 persons (farewell dinner)
Service Cost ^{**}	11,155	Professional staff charge, honorarium, communication, etc
Training Materials [*]	3,000	300USD x 10 persons
Organization Service	1,959	Meeting room, Stationery, Ceremony preparation, etc.
Total		29,654

^{*}estimated based on the average expenses in 2014-2016 trainings in ASEAN countries

^{**}estimated based on the RECOFTC unit cost

▪ Forest Rehabilitation

1. Course Information

▪ Date / Location	: December / ROK
▪ Organizers	: Secretariat and Park Chung Hee School of Policy and Saemaul (PSPS, Yeungnam Univ.)
▪ Target Participants	: Government officials in the field of forest rehabilitation policy and management
▪ Number of Trainees	: 10
▪ Training Objectives	: 1) To share the best practices on policy and management of national forest rehabilitation in Asia 2) To discuss challenges from the previous forest rehabilitation experiences and guide on-going and future rehabilitation efforts

2. Training Curriculum

Training Component	Topic/Activity	Hours	Remarks
Lectures, Practical Exercises and Discussions	National Forest Rehabilitation and Saemaul Movement	3	
	Lessons Learnt from Korea's National Forest Rehabilitation Efforts	3	
	Southeast Asia's Experiences on Rehabilitation and Restoration	2	
	Participatory Forest Rehabilitation	2	
	Silviculture for Sustainable Forest Management	3	
	Technical Silviculture Practices	2	
	New Technology for Sustainable Forest Management in the Future	2	
Field Trip	Visit Study Site and/or Relevant Organization	8	
	Field Trip Reflection	2	
Participatory Exercises	Country Report	2	
	Action Plan	3	
	Group Exercise and Wrap-up	4	
Others	Opening Ceremony (Orientation & Ice-breaking)	2	
	Training Evaluation and Landmark Program Survey	1	
	Closing Ceremony	1	
Total Training Hours		40	

3. Budget (USD)

Budget Items	Budget (USD)	Remarks
Airfare & Transportation [*]	10,000	1,000USD x 10 persons
Accommodation	5,400	90USD/day x 6 nights x 10 persons
DSA [*]	2,100	35USD/day x 6 days x 10 persons
Meals & Snacks	4,500	90USD/day x 5 days x 10 persons
Lecture Fee	2,500	100USD/hr x 25 hrs (lecture fee)
Training Materials	300	30USD x 10 persons
Organization Service	4,854	Transportation, Stationery, Ceremony preparation, etc.
Total	29,654	

^{*}estimated based on the average expenses in 2014-2016 trainings in ASEAN countries

2.1.3 Implementation procedure and tentative schedule

Training courses will be jointly organized and implemented by the Secretariat and relevant organizations, and their main responsibilities are as follows:

Secretariat (Main Organizer)	Co-organizer (Adviser)
<ul style="list-style-type: none"> · Manage entire training course · Design training concept and curriculum · Implement/facilitate overall training courses · Communicate trainees and trainers · Process administrative procedures 	<ul style="list-style-type: none"> · Advise on training curriculum · Develop training exercises and practices · Provide/suggest relevant trainers and deliver lectures

The operational procedures are listed in Table 2-2.

Table 2-2. Operational procedures for training courses

Timeline (Prior to Training)	Procedure	
	Secretariat	Co-organizer
6-3 months	- Draft training course proposal	- Share own curriculum if there is any
3-2 months	- Develop concept note and course guidelines based on the proposal	- Provide advice on concept note and course guidelines development
2 months	- Design a training curriculum and then review and revise it together with the Secretariat and co-organizer	- Provide/suggest relevant trainers
	- Send official documents to the co-organizer and corresponding institutes - Invite participants (trainers/trainees) via an official letter from the Secretariat	
2-1 months	- Finalize training curriculum, including designation of trainers and designing of study tours/field trips/lab. practices	- Develop specific exercises and practices according to participants' needs and background
	- Send acceptance letters to participants - Compile list of participants and their documents (registration form, passport copy, flight info.) - Develop assignments for participants (country report, action plan)	
2-0 month	- Prepare proceedings, program kits, reimbursements, and certificates - Arrange transportation and meals	- Provide all training materials to the Secretariat



2.2 Landmark Scholarship Program

2.2.1 Basic direction

► Admission quota for 2018

The Secretariat will offer the 2018 Landmark Scholarship to 3 Recipients – 1 Doctoral degree Recipient (PhD) and 2 Master's degree Recipients (MSc). The Scholarship Recipients will commence their studies in March 2018.

► Eligible universities

For the 2018 intake, Applicants may apply to a total of 9 universities as shown in Table 2-3. Depending on the Applicant's desired major or area of specialization, the Secretariat may offer the Applicant a place in any of the 9 universities who have signed a Memorandum of Understanding (MOU) with the Secretariat.

Table 2-3. List of eligible universities and degrees offered

University	Degree offered	College and Department
1. Chungbuk National Univ.	PhD, MSc	Department of Environment and Forest Resources, College of Agriculture, Life and Environment Sciences
2. Chungnam National Univ.	PhD, MSc	Department of Environment and Forest Resources, College of Agriculture and Life Sciences
3. Dongguk Univ.	PhD, MSc	Department of Biological and Environmental Science, College of Life Science and Biotechnology
4. Kangwon National Univ.	PhD, MSc	Department of Forest Management, Department of Forestry and Environmental Systems, and Department of Landscape Architecture Design, College of Natural Science
5. Kongju National Univ.	PhD, MSc	Department of Forest Resources, College of Natural Sciences
6. Kookmin Univ.	PhD, MSc	Department of Forest Resources, College of Forest Science
7. Seoul National Univ.	PhD, MSc	Department of Forest Environmental Science, College of Agriculture and Life Sciences
8. Univ. of Seoul	PhD, MSc	Department of Environmental Horticulture, College of Natural Science
9. Yeungnam Univ.	MSc	Forest Resources and Ecological Restoration Major, Department of Sustainable Development, Park Chung Hee School of Policy and Saemaul

► Scholarship support

The maximum annual financial support that can be provided to the Recipient is 22,500 USD and the details are shown in Table 2-4.



Table 2-4. List of benefits and allowances provided

Item	Max. Amount (USD)	Unit	Remarks
Airfare	1,000	per one-way	Depending on actual expense
Settlement Allowance	400	once	
Tuition	3,500	per semester	Transferred directly to university
Monthly Allowance	900	per month	
Academic Support Fee	1,000~2,000	per year	1,000 USD for M.Sc 2,000 USD for Ph.D
Language Training Fee	500	per semester	Depending on actual expense
Medical Insurance	200	per semester	Depending on actual expense
Dissertation Printing	1,000	once	Depending on actual expense
Journal Publication	500	once	Depending on actual expense

► **Application requirements**

1. General requirements

- Applicants must be active government officials/staff in the forestry sector in any of the 10 AMS
- Applicants should be in good health, both mentally and physically, to stay in the ROK for an extended period of time. Handicapped or disabled Applicants who satisfy the requirements are eligible to apply for the Program.

2. Academic requirements

- Applicants must have a bachelor's degree (to apply for the master's program) or a master's degree (to apply for the doctoral program).
- Applicants should have a minimum Grade Point Average (GPA) of at least 80 on a 100-point scale.
- Applicants should meet the language proficiency admission requirements of the universities open for application.

► **Priority scholarship consideration**

Applicants with the following qualifications/traits may receive priority consideration for the Landmark Scholarship Program:

- Experienced applicants who are well-equipped with forestry knowledge of his/her country, Currently work in forestry agencies or is involved in academic work in a field of forestry in his/her country,
- Previous major is in a field of forestry,
- Have English or Korean language proficiency,
- Have a higher GPA than other Applicants, and
- Have been awarded and/or have published academic papers.



2.2.2 Operational procedures

The selection procedures and application schedule are shown in Table 2-5.

Table 2-5. Selection procedure and application schedule

Procedure	Schedule
1. Call for Applicants via an official invitation by the Secretariat	Apr. 2017
2. Submission of nominations by each Focal Official for AFoCO Related Matters	By 30 Jun. 2017
3. Submission of documents by Candidates to the Secretariat	By 30 Jun. 2017
4. Selection of Candidates by the evaluation committee	Jul. 2017
5. Matching of Candidates with suitable Universities/Departments and Supervising Professors	Jul. 2017
6. Consultations with prospective Supervising Professors and submission of study plans by Candidates	From Aug. 2017
7. Admission procedures for respective universities	From Sep. 2017
8. Candidates who gain admission into the university applied for become Scholarship Recipients	Dec. 2017
9. Domestic and administrative procedures for entry into the ROK	Jan.-Feb. 2018
10. Start of the 1st semester	From 2 Mar. 2018



The roles and responsibilities of the main stakeholders, including the Secretariat, Supervising Professors, and students (Applicant, Candidate, Recipient) are as follows:

1. Secretariat

The Secretariat is in charge of the overall administrative arrangements during the scholarship period, the management and supervision of the Recipient, and the provision of the scholarship benefits and allowances to the Recipient.

2. Supervising Professor

The Supervising Professor is in charge of mentoring and directly supervising the Recipient while cooperating closely with the Secretariat.

The Supervising Professor is required to submit to the Secretariat a written opinion on the Recipient's academic capacity and the progress of his/her research, twice a year.

3. Students (Applicant, Candidate and Recipient)

All Applicants, Candidates and Recipients are expected to cooperate closely with and follow the instructions given by the Secretariat as well as his/her Supervising Professor.



2.3 Organizational Structure

In accordance with the general guidelines of Component 2 of the Landmark Program, all activities under Component 2 will be conducted by the Secretariat.

The Program Manager of Education & Training is in charge of strategic planning and coordination of specific activities, preparing budget plans, and ensuring proper budget execution with the administrative support of the AFoCO RETC staff as well as staff of the relevant institutions.

2.4 Annual Budget Plan

The total annual budget for Component 2 in 2017 is 268,358 USD. This amount covers all expenses for Component 2, which includes the Landmark Training Courses as well as the Landmark Scholarship Program. The tentative budget plan for Component 2 is depicted in Table 2-6.

Table 2-6. Budget plan for Component 2 in 2017

Item	Budget (USD)
Landmark Training Courses - Short-term Training Course: 2 courses	59,308
Landmark Scholarship Program - Master's degree (MSc): 6 persons - Doctoral degree (PhD): 3 persons - Events (evaluation committee meetings, etc.)	209,050
Total	268,358



3. Restoration of Degraded Forest Regions(Componet 3)

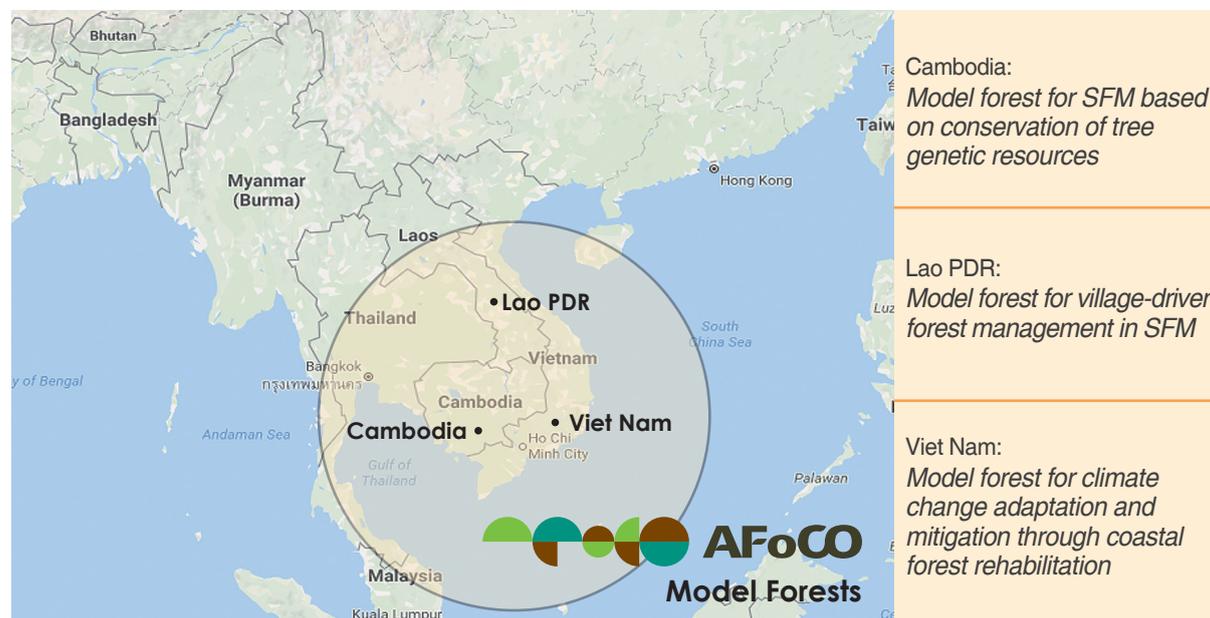
3.1 Basic Direction

The restoration projects of the Landmark Program have been implemented since 2016 by three implementing countries, Cambodia, Lao PDR and Viet Nam. The titles of each restoration project is listed in Table 3-1.

Table 3-1. Titles of restoration projects

Country	Project Title
Cambodia	Establishment of Forest Genetics Center for Restoration of Major Timber Species in Cambodia
Lao PDR	Village-based Forest Rehabilitation in Lao PDR
Viet Nam	Rehabilitation and Development of Mangrove Forest Ecosystem in Thai Binh Province, Viet Nam

The restoration projects will contribute to the respective national goals in each country, and provide environmental and socio-economic benefits. At the end of the project, the model forests established will serve as AFoCO model forests in the region to demonstrate sustainable forest management and promote the implementation of national forest programs.



3.2 Implementation Procedure and Schedule

Component 3 covers up to 5,000 ha of project area in three countries, in which plantation and protection activities will be implemented in various ways. The plantation areas in each country is listed below (Table 3-2).

Table 3-2. Plantation areas in implementing countries

Country	Location	Total Project Area (Total Plantation Area) (ha)	Cumulative Area of Plantation (ha)	Target Area of Plantation in 2017 (ha)
Cambodia	Siem Reap	248 (48)	10	20
Lao PDR	Paksong	600 (200)	0	50
Lao PDR	Sangthong	3,020 (649)	0	131
Viet Nam	Thai Binh	960 (160)	40	60
TOTAL AREA		4,828 (1,057)	50	255

The summary of the annual schedule is as follows (Table 3-3):

Table 3-3. Summary of the 2017 annual plan

List of Activities	2017			
	Q1	Q2	Q3	Q4
Cambodia				
1. Seed and scion collection & seedling production				
2. Site layout and mapping				
3. Land preparation				
4. Plantation				
5. Labeling, signboard and fencing				
6. Maintenance of planting areas				
7. Silvicultural management				
8. Forest fire management				
9. Training of FA staff, students and local people				
10. Infrastructure development				
11. Additional activities funded by NIFoS				
12. 3 rd PSC Meeting				
Lao PDR				
1. Seed collection & seedling production				
2. Site layout and mapping				

3. Plantation of ex-situ conservation site by VFDGs (Paksong: 10 ha, Sangthong: 5 ha)				
4. Forest protection by VFPGs (Paksong: 400ha, Sangthong: 2,300ha)				
5. Agroforestry activities				
6. Project promotion (National Arbor Day Events)				
7. Community consultation for planting and protecting activities				
8. Development of training modules for villagers				
9. Improvement of Technical Guidelines				
10. 3 rd PSC Meeting				
Viet Nam	Q1	Q2	Q3	Q4
1. Seedling production				
2. Site layout and mapping				
3. Plantation and tending				
4. Tending and protection of mangrove planted in 2016				
5. Forest protection activities				
6. Training courses for project staff and villagers				
7. Study tour to Thailand				
8. Communication activities				
9. Technical assistance from the RIFEE				
10. 3 rd PSC Meeting				

3.2.1 Cambodia

Project title:	Establishment of Forest Genetics Research Center for Restoration of Major Timber Species in Cambodia
Project site:	Khun Ream, Siem Reap Province, Cambodia
Project duration:	10 years (2016-2025)
Total budget	1,500,000 USD
Implementing agency:	Institute of Forest and Wildlife Research and Development (IRD) under Forestry Administration

■ Overview

In the 2nd year of implementation, the main mission of the project is to establish another 15 ha of progeny test plantation and clonal seed orchard, alongside the silvicultural management of Khun Ream experimental forest. The main annual project outputs for year 2017 are listed below (Table 3-4).

Table 3-4. Main activities and outputs in 2017 for the project of Cambodia

Category	Activity	Outputs
Plantation	1) Establishment and maintenance of progeny test plantation	- 16 ha of new plantation, - Plantation maintenance covering 8 ha
	2) Establishment and maintenance of clonal seed orchard	- 4 ha of new plantation, - Plantation maintenance covering 2 ha
Protection	3) Silvicultural management of experimental forest	- 200 ha
Capacity Development	4) Education and training programs	- Trainings for students and local people
	5) Additional activities funded by NIFoS	- Senior group training in Korea - Technical group training in Korea - Visits by tree breeding expert to Cambodia - Plus tree selection - Writing/publication of tree breeding guidelines
Project Management	6) Infrastructure for new site and improvement of Khun Ream research station	- Watering facilities (with solar pump), - Electricity improvement of Khun Ream research building, - 1 pond at the 2nd plantation site, - 1 km access road, - 1 canal at 2nd plantation site

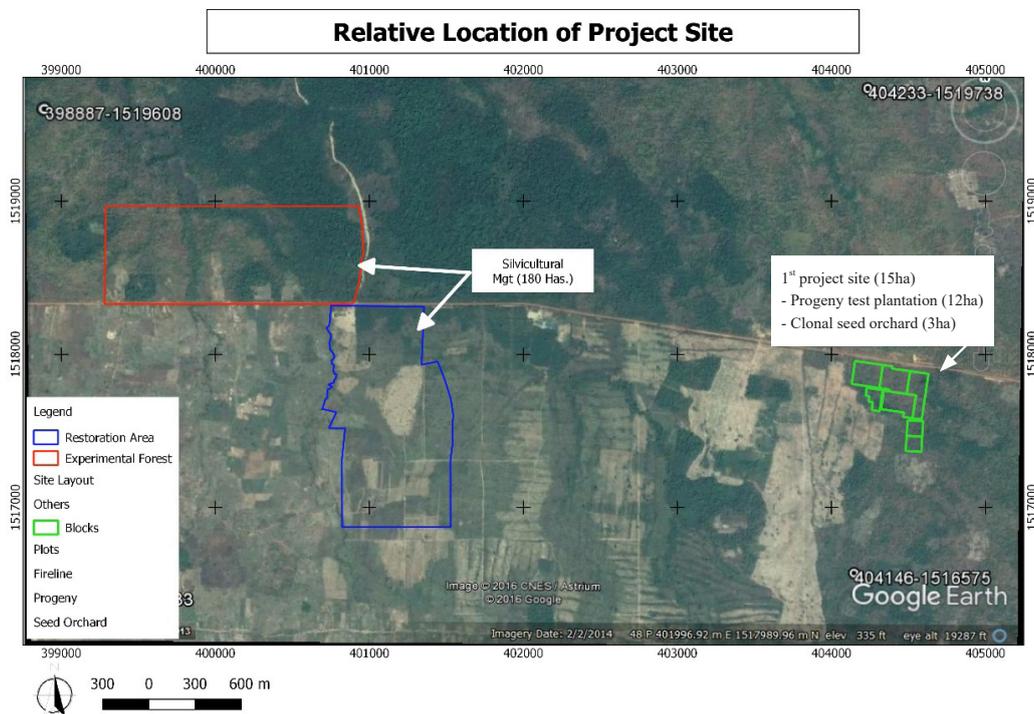


Figure 3-1. 1st project site (15 ha), including progeny test plantation (12 ha) and seed orchard (3 ha)

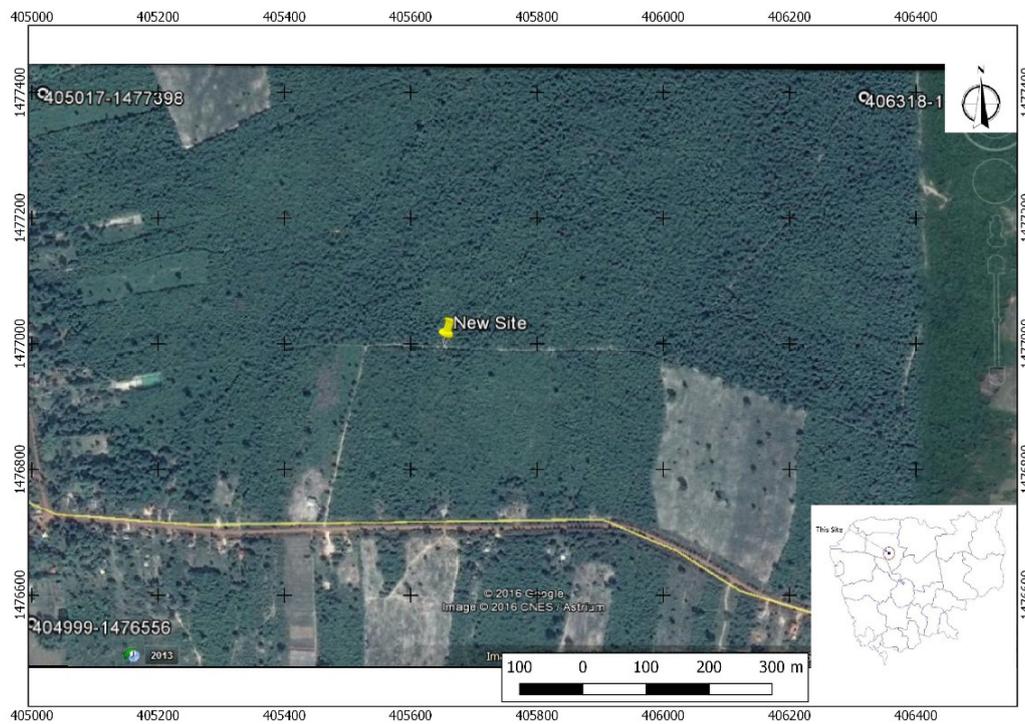


Figure 3-2. 2nd project site (15 ha), including progeny test plantation (12 ha) and seed orchard (3 ha)
(*site demarcation will be done in 2017)

■ Plantation Activities

Establishment of progeny test plantation

The objectives of the progeny test plantations are to: (1) confirm the superiority of selected plus trees based on their progenies; and (2) provide genetic information for genetic thinning at the untested (1st generation) seed orchard. In 2017, the project will establish the second site for the progeny test plantation. 16 hectares of progeny test plots, including the remaining plantation activity in 2016 (4 ha), will be established. The plots are allocated for the 3 targeted species, *Dalbergia cochinchinensis*, *Dipterocarpus intricatus* and *Pterocarpus macrocarpus*, which will be replicated 4 times. Each block will be subdivided into 100 plots where the seedlings from 100 mother trees will be randomly planted.

- Production and maintenance of seedlings for progeny test plantation

The seedlings from the mother trees (plus trees) will be raised for the progeny test plantations. Approximately 16,000 seedlings will be raised for 16 hectares of progeny test plantations (4 ha for *P. macrocarpus*, 4 ha for *D. cochinchinensis*, and 8 ha for *D. intricatus*).

- Site layout of progeny test site

The progeny test plantations will be established in selected sites. A suitable area will be selected together with the community. The establishment of progeny test plantations involves the following activities: collection of seeds from the selected mother trees, production of seedlings from the collected seeds, operation of the site for actual planting and labeling, installation of signboards and fences as well as carrying out maintenance weeding.

- Land preparation and plantation

Site preparation will commence as soon as the boundary of the plots have been determined. The site will be cleared from debris and seedlings will be transported from Khun Ream to the new site before out-planting to allow time for acclimatization to the site conditions. The seedlings will be appropriately labeled to include details of their mother trees. Planting will be conducted at the onset of the rainy season.

- Labeling, installation of signboards and fencing for progeny test blocks

Each planting plot will be labeled. The signboards indicating the block numbers and the species planted will be installed. The research plots will be fenced to prevent encroachment and ward off stray animals

- Maintenance and weeding of progeny test plantation

The progeny test plantations will be regularly maintained. Weeding will be conducted at least twice a year. However, no replanting and pruning will be conducted. Survival and monopodial stems/epicormic branching will be one of the traits that will be considered when selecting superior mother trees.

Establishment of clonal seed orchard

In 2017, the project will establish the clonal seed orchard. 4 hectares of progeny test plots, including the remaining plantation activity in 2016 (1 ha), will be established. These plots are allocated for the 3 targeted species – *D. cochinchinensis*, *D. intricatus* and *P. macrocarpus*.

The clonal seed orchard will serve as a storage facility for genetic (or breeding) materials for the future while functioning as a gene bank (ex-situ) for phenotypically superior trees. Plus trees will be selected from different provinces. The scions or tissues (either twigs, axial buds, shoot tips, etc.) will be collected from different mother trees and will be asexually propagated in the nursery. The asexually propagated plants will be planted in the field as soon as they are ready for outplanting.

Table 3-5. Type of seed orchard for each species

	Species	Type of Seed Orchard
1	<i>D. cochinchinensis</i>	CSO
2	<i>D. intricatus</i>	CSO or SSO* (*if asexual propagation fails)
3	<i>P. macrocarpus</i>	CSO

CSO: clonal seed orchard, SSO: seedling seed orchard

- Asexual propagation

Seeds and scions will be collected from the identified mother trees (plus trees). The seeds will be properly labeled. The scions will be grafted to the prepared rootstocks and will be outplanted in the prepared plots. There are two major propagation types: sexual propagation (i.e. through seeds), and asexual or vegetative propagation through grafting or cutting. The clonal seed orchard will be established by planting materials produced through vegetative propagation (through cutting or grafting).

Based on the results of the preliminary experiment, asexual propagation will be utilized for *P. macrocarpus* and *D. cochinchinensis*, while seedling materials will be used for *D. intricatus*. The asexual propagation trial (cutting and grafting) for the latter was not successful. Under the guidance of the experts from ROK, the project team attempted several techniques, including the grafting of *D. intricatus* to the rootstock of *D. alatus*. The project team also tested several soil media for the cuttings of *D. intricatus*. However, all of these failed. If the test in 2017 also fails, *D. intricatus* will be established as seedling seed orchard (SSO).

The asexually propagated materials will be maintained until the planting season. They will then be transported to the new site before outplanting. The seedlings will be kept at the new site for a few weeks before outplanting to allow time for recovery from stress.

- Site Layout/demarcation

The seed orchard will be planted in the new site. The seed orchard will not be planted close to the progeny test plantation. The selected site will contain a minimal number of mother trees of *D. cochinchinensis*, *P. macrocarpus* and *D. intricatus* to prevent cross pollination. Whenever possible, a buffer zone will be created in each plot.

- Land preparation and plantation

The area set aside for seed orchard will be cleared from debris. A buffer zone of at least 5 meters will be provided around the blocks. Whenever possible, species unrelated to *D. cochinchinensis*, *P. macrocarpus* and *D. intricatus* will be planted within the buffer zone. Preferably, evergreen plant species will be planted.

The planting layout in the clonal seed orchard will follow the following design:

- (new site) 5m x 5m planting, 1 ha/species x 3 species = 3 ha,
- (1st site, *D. intricatus*) 5m x 5m planting, 1 ha/species x 1 species = 1 ha,
- Labels, signboards, edges and fencing will be installed/added.
- More specific planting design will be created when the sites are confirmed .

In the design, each species will be planted within a 1-ha block. Approximately 4 seedlings from each mother tree will be planted per block. Each block will be subdivided to 4 plots. The 4 seedlings will be distributed in each plot to minimize pollination by the same mother trees.

- Labeling, and installation of signboards and fencing systems

The plots will be labeled with their plots. Signboards indicating the block numbers will be installed. The signboards will show the block numbers and the species that are planted. The research plots will be fenced to prevent encroachment and ward off stray animals.

- Maintenance

Like in the progeny test, the seed orchard will be regularly cleared of competing weeds. This is to encourage growth and prevent competition. However, in contrast to the progeny test plantation, the planted seedlings in the seed orchard may be pruned to encourage the growth of branches. Pruning may be conducted during summer or the dry season. Pruned branches will be painted with tar to minimize the onset of diseases.

The sites where the seed orchards are located are characterized by thin soil. As part of the amelioration measures, the project will interplant mung bean. The species, a nitrogen fixing plant, will help in accumulation of soil nutrients and at the same time control weed growth. The interplanting will only be done in the seed orchard (not in the progeny test plantation). The ability to survive and grow in poor soil conditions is part of the screening process in progeny test plantations.

■ Forest Protection Activities

Silvicultural management

Silvicultural management techniques will be applied to the existing research plots, Dalbergia plantations and the experimental forests. The effect of the silvicultural operations as well as the protection activities will be duly documented. The following silvicultural activities will be conducted:

- Weeding: 4 times/year x 3 years
- Pruning: 2 times/10 years
- Measuring and monitoring
- Protection from forest fires by constructing firebreak lines

The silvicultural treatments that will be conducted in the experimental forests include weeding/removal of competing vegetation, pruning and release cuttings. The experimental forests will be continuously monitored and measured for the growth and survival of the stand. Replanting will be conducted whenever necessary.

Firelines will be established in some areas of the experimental forests that are frequently burned or at risk of being burned. Patrols to the study site will be regularly conducted to spot early start of fires. The patrol work also aims to thwart any illegal cuttings and encroachment in the site. The personnel of IRD will also bring along firefighting equipment.

■ Promotion and Public Awareness Activities

Training of FA staff (funded by the NIFoS)

This activity involves the training of the technical staff and the villagers and provides educational lectures for undergraduate students of selected universities. The results of the experiments, such as propagation techniques, and the learning experiences from the field visits to the Republic of Korea will be shared with the participants of the training. Key personnel of IRD will also visit the ROK for further learning. The trainings to be implemented by NIFoS will cover topics such as introduction to tree breeding, progeny test plantation and seed orchard etc. Aside from the exposure of key staff to Korea's experiences, Korean experts will also be invited to Cambodia to train the FA staff.

- Public awareness/local training for villagers

The project will endeavor to share the techniques applied and outcomes of the project with the nearby villagers. Activities to raise public awareness of the importance of forests, especially the 3 species, the importance of seed orchards, and propagation techniques may be conducted.

- Education of undergraduate students

The project will also develop the skills of the next generation of foresters and researchers. Students from local universities (RUA, RUPP and Prealeap Agricultural College) will be invited to participate in practical trainings related to seed orchard management.



■ Project Management

Infrastructure development

Infrastructure will be established in the second site. The infrastructure developments include:

- Construction of water facilities;
- Installation of watering system for plantation in second site;
- Construction of access road;
- Construction of canal;
- Digging of pond; and
- Office building construction.

Water facilities will be established in the second site to support the nursery operation. In addition, the project will also improve the electricity system of the building in Khun Ream Research Station.

■ Additional Activities Funded by NIFoS

The IRD also received additional funding from NIFoS to support activities that complement the activities of the current Landmark Program. To avoid overlaps in the management, it was agreed in the last PSC meeting to let NIFoS take care of the technical assistance aspect, such as trainings in Cambodia and Korea, while the Landmark Program will concentrate on the establishment and development of the progeny test site and clonal seed orchard.

The activities that will be implemented by NIFoS includes:

- Senior group training in Korea;
- Technical group training in Korea;
- Tree breeding experts' visit to Cambodia;
- Plus tree selection;
- Technical group training in Cambodia;
- Collection of seeds and scions from plus trees and propagation;
- Writing/publication of tree breeding guidelines; and
- Writing of completion report.



3.2.2 Lao PDR

Project title:	Village-based Forest Rehabilitation in Lao PDR
Project site:	Paksong District, Champasak Province Sangthong District, Vientiane Capital
Project duration:	10 years (2016-2025)
Project budget	1,500,000 USD
Implementing agency:	Department of Forestry, Lao PDR

■ Overview

The main annual project outputs for year 2017 are as follows (Table 3-6).

Table 3-6. Main activities and outputs in 2017 for restoration project in Lao PDR

Category	Paksong	Sangthong
Plantation	10 ha of ex-situ conservation site	5 ha of ex-situ conservation site 126 ha of enrichment plantation
Protection	400 ha	2,370 ha
Agroforestry	--	5 individual landowners (min. number) surrounding the project site will start the activity (total area will be calculated after signing contracts with the participating owners)
Public awareness	Public braodcasting, print media, leaflets, t-shirts, etc.	Public braodcasting, print media, leaflets, t-shirts, etc.
Income generation	Income generating activities such as selling of seeds by low-income villagers	Income generating activities such as selling of seeds by low-income villagers
Capacity development	Trainings and consulting activities	Trainings and consulting activities
Guidelines	Guidelines on Village-based Forest Rehabilitation are developed and improved to reflect site specifications	Guidelines on Village-based Forest Rehabilitation are developed and improved to reflect site specifications



The project site in Paksong is situated in Paksong district of Champasak province in the southern part of Lao PDR, about 75 km to the Pakse, the capital city of the province (Figure 3-3). The project site in Sangthong is situated in Sangthong district of Vientiane Capital in the central part of Lao PDR, about 60 km to the north of Vientiane Capital (Figure 3-4).



Figure 3-3. Location of project site in Paksong district

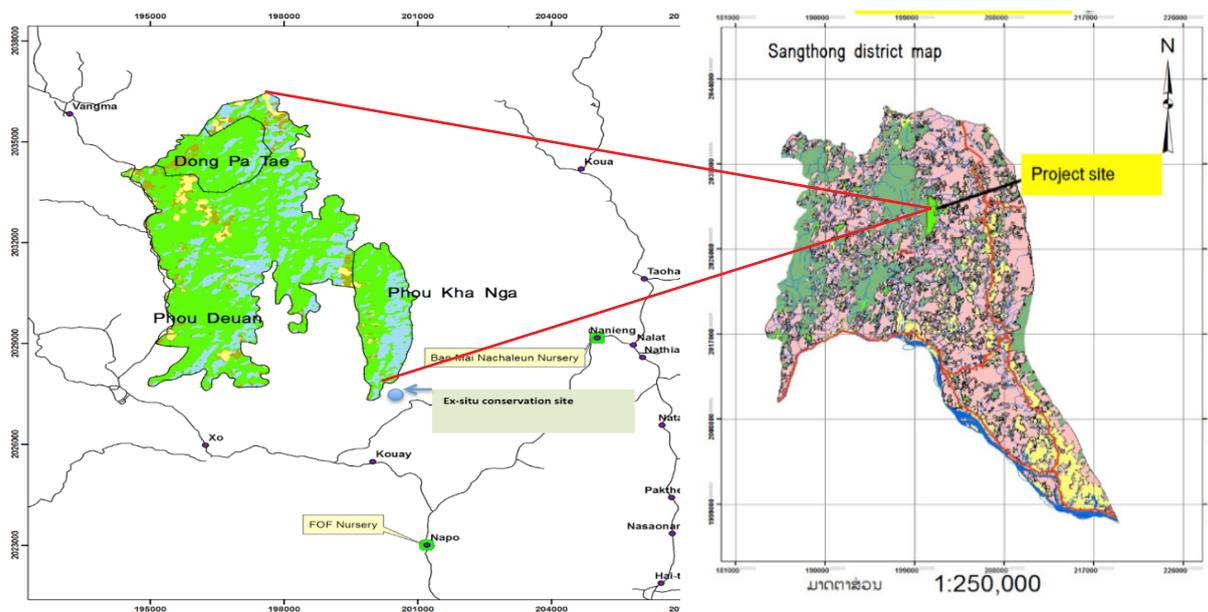


Figure 3-4. Location of project site in Sangthong District

■ Plantation Activities

Seed collection & seedling production in Paksong

According to the project design, these seedlings should be produced from high quality seeds of 3 native tree species, *Paramichelia baillonii*, *Persea kurzii* and *Spondias axillaris*, which are commonly available in nearby areas. Since seeds of these species are differ in terms of weight and germination capacity, it was estimated that in total, around 65 kg of quality seeds are required to meet the total demand for seedlings - *Paramichelia baillonii* (50kg), *Persea kurzii* (10kg) and *Spondias axillaris* (5kg)). Ideally the seeds should be collected by project staff or villagers. Otherwise, they should

be purchased from reliable seed sources. The locations of potential seed sources are illustrated in Figure 3-5. In 2016, project staff collected the seeds of the three native species and trained VFDGs to establish a temporary nursery in Kongtoun Village. In 2017, the project staff will support VFDGs in the implementation of this activity.



Figure 3-5. Potential seed sources in Paksong district

In 2017, about 42,300 seedlings will be produced in total for both ex-situ (10 ha, 1,320 seedlings/ha) and enrichment plantings (40 ha, 600 seedlings/ha). Table 3-7 shows the number of seedlings of each species. The project will sign a contract agreement with VFDGs for the production of seedlings.

Table 3-7. Seedling number requirements for each species for ex-situ and enrichment in Paksong

Species	Number of seedlings required for ex-situ conservation	Number of seedlings required for enrichment	Number of seedlings required for reservation
<i>Paramichelia baillonii</i>	4,400	8,000	1,700
<i>Persea kurzii</i>	4,400	8,000	1,700
<i>Spondias axillaris</i>	4,400	8,000	1,700
Total	13,200	24,000	5,100

Note: The actual amount of seedlings of each species will be determined after site preparation

Seedling production for ex-situ conservation plantation in Sangthong

In 2017, about 29,000 seedlings will be produced for the 20 ha ex-situ conservation plantation (1,320 seedlings/ha). The six commercial species – *Azelia xylocarpa*, *Dipterocarpus alatus*, *Hopea odorata*, *Pterocarpus macrocarpus*, *Sindora cochinchinensis*, and *Tectona grandis* have been identified. To ensure the quality of seedlings, seeds of these species shall be collected from the reputable and reliable sources and seedling productions will be carried out in a nursery in Ban Mai-Nachaleun under the close supervision of the field staff. The nursery is located about 7-8 km away from the ex-situ conservation plot. The cost of seedling production based on the contract. The price

of seedling varies from USD 0.60-0.80 per seedling, based on species including the transportation from nursery to temporary shed near planting site. The price of seedlings for ex-situ conservation may be higher than those of enrichment planting, because the seeds come from more expensive sources. This is to ensure that these plantations will be key seed sources for forest rehabilitation in the future.

Table 3-8. Number of seedlings of each species for Sangthong

Species	Number of seedlings required for Ex-situ conservation	Number of seedlings required for reservation
<i>Azelia xylocarpa</i>	4,400	440
<i>Dipterocarpus alatus</i>	4,400	440
<i>Hopea odorata</i>	4,400	440
<i>Pterocarpus macrocarpus</i>	4,400	440
<i>Sindora cochinchinensis</i>	4,400	440
<i>Tectona grandis</i>	4,400	440
Total	26,400	2,600

Note: The actual amount of seedlings of each species will be determined after site preparation

Seedling production for enrichment plantation in Sangthong

In 2017, about 52,000 seedlings will be produced for 126 hectares (325 seedlings/ha) of enrichment planting. The three commercial species – *Azelia xylocarpa*, *Pterocarpus macrocarpus* and *Tectona grandis* – have been identified as framework species in the area. Last year, the project staff carried out discussions with VFDGs and individual households to make necessary arrangements for seedling production such as contract development, training implementation, equipment purchase, and provision of detailed instructions, etc. This year, the project will sign a contract agreement with VFDGs for the seedling production.

Table 3-9. Number of seedlings of each species for Sangthong

Species	Number of seedlings required for ex-situ conservation	Number of seedlings required for reservation
<i>Azelia xylocarpa</i>	16,000	1,300
<i>Pterocarpus macrocarpus</i>	16,000	1,300
<i>Tectona grandis</i>	16,000	1,300
Total	48,000	4,000

Note: The actual amount of seedlings of each species will be determined after site preparation

Land clearance and establishment of 10 ha of ex-situ conservation plantation in Paksong

Total 40 hectares of ex-situ conservation area were demarcated in 2016. In 2017, about 10 hectares will be prepared and established. The plantation will be established on clear cut degraded forestlands, fenced with 4-lines of barbed wires and surrounded by 3 meter-wide fire protection lines. The native tree species will be planted separately in suitably sized blocks with spacings of 2 m x 3 m.

Table 3-10. Seedling requirements for ex-situ plantation Paksong in 2017

Species	Area (ha)	Number of seedlings	Reserved Seedling/ha
<i>Paramichelia baillonii</i>	3.4	4,500	450
<i>Persea kurzii</i>	3.3	4,500	450
<i>Spondias axillaris</i>	3.3	4,500	450
Total	10	13,500	1,350

Note: The actual amount of seedlings of each species will be determined after site preparation

Land clearance and establishment of 5-ha ex-situ conservation plantation in Sangthong

Total 20 hectares of ex-situ conservation area were demarcated in 2016. About 5 hectares will be prepared for the ex-situ conservation plantation. Planting site preparation will involve clear cutting and burning of the planting block at least one and half months before actual planting. The plantation will be established on clear cut degraded forestlands that are fenced with 4-lines of barbed wires and surrounded by 3-meter-wide fire protection lines, Two native tree species, *Pterocarpus macrocarpus* and *Azelia xylocarpa*, will be planted separately in suitably sized blocks with spacings of 2 m x 3 m.

Table 3-11. Seedling requirements in Sangthong district in 2017

Species	Area (ha)	Number of seedlings	Reserved Seedling/ha
<i>Pterocarpus macrocarpus</i>	2.5	3,300	330
<i>Azelia xylocarpa</i>	2.5	3,300	330
Total	5	6,600	660

Note: The actual amount of seedlings of each species will be determined after site preparation

■ Forest Protection Activities

Conducting village driven forest protection by VFPGs

In Paksong, the Village Forest Protection Groups (VFPGs), established in 2016 with 8 members from the two villagers of Kongthoune and Bengkatoud, are tasked to conduct a forest patrols along a travelable route at least once a month. The VFPG will also act as key local informants who will work with and provide information to official forest inspectors. The patrols should be conducted in a systematic manner, covering the whole project site, including the areas covered by forest plantations and enrichment plantations. The patrols should be conducted more frequently during the dry season where forest fires usually occur. It is estimated that 15 patrols should be conducted annually.

In Sangthong, the VFPGs were established in 2016 with 23 members from four villagers of Nachaluern, Koy, Nong Boua and Taohi. The 2,300-ha Protection Forest (Dong Pa Tae and Phou Douan) will be divided into zones and each village group will be responsible for the zone that is closest to their village. The village group will be responsible for the safety of their zones, and act promptly to tackle issues and report to the project field assistant and project managers whenever necessary.

■ Agroforestry Activities in Sangthong

Consultation meetings with landowners and villagers

The private land that provides the seedlings for agroforestry shall be located in the area around the foothill of Phou Kha Nya where enrichment planting will be carried out. These land plots along Phou Kha Nya shall be highly prioritized.

Before distributing the seedlings, the project shall organize a consultation meeting with private landowners who are interested in agroforestry on a contract basis. Landowners who want to join the project shall notify the project staff of their interest and register for the project. Then, the project staff then proceed to develop the contracts with the landowners to ensure that the agroforestry activities are in line with the goals of the project. After registering, the landowners shall enter into the contract and perform their contractual obligations in accordance with the Contract Law. The contract will be signed between landowner and Sangthong DAFO.

Seedling distribution for agroforestry activities

Landowners, who have entered into contracts with Sangthong DAFO, will be provided with seedlings from the project free of charge. The amount of seedlings will be calculated based on the size of the land areas. The species to be planted will be decided by landowners. Suitable agroforestry techniques will be applied and technical trainings will be provided to interested households. For paddy fields, live fencing systems and line planting will be introduced. Around 25,000 seedlings will be provided through the project, depending on the budget, which is expected about USD 5,000 per contract.

Monitoring and mapping for agroforestry activities

After distributing the seedlings to private landowners, the project staff has to monitor and survey the planted areas and then utilize GPS marking for mapping. All registered land plots have to be indicated on the map to facilitate the monitoring work. This is to ensure that all seedlings provided to private landowners are traceable.

■ Promotion and Public Awareness Activities

National Arbor Day Events

In order to raise awareness on preservation, forest development, forestland and the natural environment of ethnic minorities, with the special inclusion of the young generations, Lao PDR designates 1st June as National Arbor Day, with the aim of creating abundant forest resources and ensuring their sustainable use. The project should to organize Arbor Day event yearly in the project site. Representatives from government agencies, Civil Society Organizations (CSOs), private sectors, Non-Government Organizations (NGOs) including International Non-Governmental Organizations (INGOs), etc., will be invited to the events. In addition, the project will engage a media specialist to increase public awareness on village-based forest rehabilitation activities through newspapers and television programs regularly.



Community consultation on seedlings production, enrichment planting, maintenance and protection of rehabilitated areas

The project is designed to be implemented with active participation from local authorities and villagers. Therefore, regular public consultations are necessary and must be done at the earliest stage of project implementation. The consultations should be conducted at two different levels – district level and village or village cluster level. For both levels, topics and issues related to villagers' benefits from the production and sale of seedlings, enrichment planting, maintenance and protection of rehabilitated areas will be discussed.

In addition, relevant implementation modalities as well as conditions for the implementation of rehabilitation activities will be discussed and agreed on. It is also important that meeting minutes are prepared and signed by the relevant village and village cluster authorities. To ensure the effectiveness of consultations, it is important to involve concerned district authorities in the leading of the process. In practice, this can be done by organizing district and village consultation meetings, one at the district level and one at the village level. In addition, project promotion should be publicized through different media outlets such as newspapers as well as radio or television programs.

Development of various training modules for villagers through village consultation

The main objective of village consultations is to obtain information on what, how and under what conditions village authorities and villagers would be willing to and eventually, decide to participate in project implementation. At the end of the consultation, the project team will collect sufficient information to establish what, whom, when, and how to involve village authorities and villagers in the project implementation. The information should also provide ideas on the kinds of incentives that may be required to encourage active participation and effective implementation of activities by the local communities and authorities. It is also important that meeting minutes are prepared and signed by the relevant village authorities.

Based on the village consultation report and analysis of the village training needs, it was concluded that various training modules should be conducted. These include training topics such as village nursery establishment and management, seed collection, seedling production, enrichment planting, and maintenance of rehabilitated areas. Trainings on other important issues such as patrolling, reporting, map reading and firefighting shall be provided to members of village groups. Skilled personnel from DoF Training Center in Vientiane Province or Faculty of Forestry (NUoL) or the Forestry Research Center of the National Agriculture and Forestry Research Institute (NAFRI) will be hired on a short-term basis to support the project implementation. The training will be organized at Houay Pamom Training center, which belongs to DoF. This training center has a demonstration site related to forest restoration and will be able to help participants gain a deeper insight into forest restoration work.



■ Project Management

Development of reforestation concept and related methodologies, procedures, and technical guidelines

For the initial stage of the project, optimum methodologies for the sites and specific technical guidelines will be developed by the DoF. In this regard, a National Consultant developed the “Guidelines for the village-driven forest rehabilitation and the project monitoring and evaluation framework for the project.” In 2017, the project will start using the guidelines and, with input from field staff and other stakeholders involved in forest rehabilitation works on the ground (including the VFDGs in both Paksong and Sangthong), improvise the guidelines to make it more suited to site-specific conditions.

3.2.3 Viet Nam

Project title:	Rehabilitation and Development of Mangrove Forest Ecosystem in Thai Binh Province, Viet Nam
Project site:	Thai Binh Province, Viet Nam
Project duration:	10 years (2015-2024)
Project budget	1,500,000 USD
Implementing agency:	Viet Nam Administration of Forestry

■ Overview

The main annual project outputs for the year 2017 are as below.

Table 3-12. Main activities and outputs in 2017 for the project of Viet Nam

Category	Activities	Outputs
Plantation	1) New plantation of mangrove forest	- 20 ha in Thai Thuy district, - 10 ha in Tien Hai district
	2) Supplementary plantation of mangrove forest	- 18 ha in Thai Thuy district, - 12 ha in Tien Hai district
	3) Tending of planted area in 2016	- 40 ha
Protection	4) Protection of existing mangrove forest	- 800 ha
Capacity development & public awareness	5) Education and trainings	- 3 training courses for local people and governmental officials - 1 study tour to Thailand
	6) Community activities	- Promotion of project



■ Plantation Activities

Plantation designs

In 2017, the target plantation area is 60 ha. As part of the 1st step, surveys as well as mangrove plantation design activities such as collection of data, relevant documents and maps; measuring and mapping of land and forest; checking design of new plantation of mangrove forest will be carried out.

Table 3-13. Areas for new plantation (NEW), supplementary plantation (SUPPL.) and protection of mangrove forest by years

No.	Location	Forest plantation								Annual forest protection (ha)
		Total (ha)		Year						
				2016		2017		2018		
		NEW (ha)	SUPPL. (ha)	NEW (ha)	SUPPL. (ha)	NEW (ha)	SUPPL. (ha)	NEW (ha)	SUPPL. (ha)	
I	Thai Thuy District	52	50	10	10	20	18	22	22	450
1	Thuy Xuan Commune	27	27	10	10	10	10	7	7	215
2	Thuy Hai Commune	25	23			10	8	15	15	235
II	Tien Hai District	28	30	10	10	10	12	8	8	350
3	Dong Long Commune	28	25	10	10	10	7	8	8	225
4	Dong Hoang Commune		5				5			125
Total (ha)		80	80	20	20	30	30	30	30	800



Tending and protection of mangrove forest planted in 2016: 40ha

Table 3-14. Tending and protection of mangrove forest planted in 2016

No	Activity	Unit	Qty	Description
1	Seedlings	seedling	8,161	20 ha x 1,667 seedlings/ha x 18% for new planted area 20 ha x 600 seedlings/ha x 18% for supplementary planted area
2	Piles (18,000 seedlings x 3 piles/seedling x 0.7 m/pile)	pile	24,483	8,161 seedlings x 3 piles/seedling
3	Cord	kg	18	3kg/ha x 20 ha x 18% for new planted area 2kg/ha x 20 ha x 18% for supplementary planted area
4	Manual work	ha	40	40 ha
6	Tending	ha	40	40 ha
7	Forest protection	ha	40	40 ha

Supplementary planting of mangrove forest: 30 ha

- Methodology: Mono plantation
- Plantation area: 30ha
- Species:
 - *Sonneratia caseolaris* (interval space: 2x3m)
 - *Kandelia obovata* (interval space: 2x3m)
 - *Avicennia marina* (interval space: 2x3m)

Table 3-15. Planting description for supplementary plantation

No	Activity	Unit	Qty	Description
1	Seedlings	seedling	18,000	30 ha x 600 seedlings/ha
2	Piles (18,000 seedlings x 3 piles/seedling x 0.7 m/pile)	pile	54,000	18,000 seedlings x 3 piles/seedling
3	Cord	kg	60	2kg/ha x 30 ha
4	Manual planting	ha	30	30 ha
5	Tending (three times a year)	ha	30	30 ha
5.1	Trash picking, piles re-arranging	ha	30	30 ha
5.2	Removing shipworm on the trees	ha	30	30 ha
6	Forest protection	ha	30	30 ha

New planting of mangrove forest: 30 ha

- Methodology: Mono plantation
- Plantation area: 30 ha
- Species:
 - *Sonneratia caseolaris* (interval space: 2x3m)
 - *Kandelia obovata* (interval space: 2x3m)
 - *Avicennia marina* (interval space: 2x3m)

Table 3-16. Planting description for new plantation

No	Activity	Unit	Qty	Description
1	Seedlings	seedling	50,010	30 ha x 1,667 seedlings/ha
2	Piles (50,010 seedlings x 3 piles/seedling x 0.7m/pile)	pile	150,030	50,010 seedlings x 3 piles/seedling
3	Cord	kg	90	3 kg/ha x 30 ha
4	Manual planting	ha	30	30 ha
5	Tending (three times a year)	ha	30	30 ha
5.1	Trash picking, piles re-arranging	ha	30	30 ha
5.2	Removing shipworm on the trees	ha	30	30 ha
6	Forest protection	ha	30	30 ha

■ Forest Protection Activities in 2017

The existing area for mangrove forest protection is 800 ha in 4 communes in the 2 districts. Principle contracts on forest protection are signed between the provincial PMB and People's Committees of 4 communes involved in the project at the beginning of the year. As proposed by the People's Committee of the 4 communes and agreement on by the local communities, 90% of the budget for forest protection will be directly paid to the forest protection group and 10% of the budget will be managed by the communal People's Committees to the cover expenses of monitoring work, meeting organization, and communication, etc. The provincial PMB will transfer the budget for forest protection twice – after signing the principle contracts at the beginning of the year (50% of the total budget) and after the check and acceptance of forest protection activities at the end of the year.

■ Promotional and Public Awareness Activities in 2017

Organization of 3 training courses

Two 1-day training courses on the technical guidelines for forest plantation, tending and protection are organized in Thai Binh province with the participation of provincial technical staff and local communities (20 participants per training course). In particular, in order to improve the capacities of project staff in terms of project planning, reporting and management following domestic regulations and procedures in accordance with the donor's regulations and procedures, a 1-day training course on project planning, reporting and management for staff of central and provincial PMBs will be organized in Ha Noi or Thai Binh province.

Organization of 1 study tour to Thailand

One study tour to Thailand to exchange experience and lesson learnt on plantation, development and protection of mangrove forest as well as share experience on development of mangrove forest-related ecotourism is organized with the participation of 10 representatives from central PMB, provincial PMB and 4 communes.

Communication activities

Communication products, such as posters, leaflets, hats, T-shirts, etc., will be manufactured and distributed to communes and relevant stakeholders.

■ Project Management

Technical Support by the Research Institute for Forest Ecology and Environment (RIFEE)

The Research Institute for Forest Ecology and Environment (RIFEE) under the Vietnamese Academy of Forest Sciences has been providing consultancy services to support the project implementation. In 2017, RIFEE will:



- Check and verify results of new plantation and supplementary plantation of mangrove forest which were conducted in 2016;
- Check and verify designs of new plantation and supplementary plantation of mangrove forest; Prepare training materials;
- Provide training at training courses;
- Monitor and evaluate new plantation, supplementary plantation and protection of mangrove forest in 2017;
- Re-check the silviculture activities based on agreed criteria and report to PMB (10% of total area of forest planting, tending and protecting); and,
- Prepare relevant reports and submit to Project Management Board.

3.3 Organizational Structure

Component 3 has two organizational bodies, each for consultation and implementation. The organizational structure is shown in Figure 3-7.

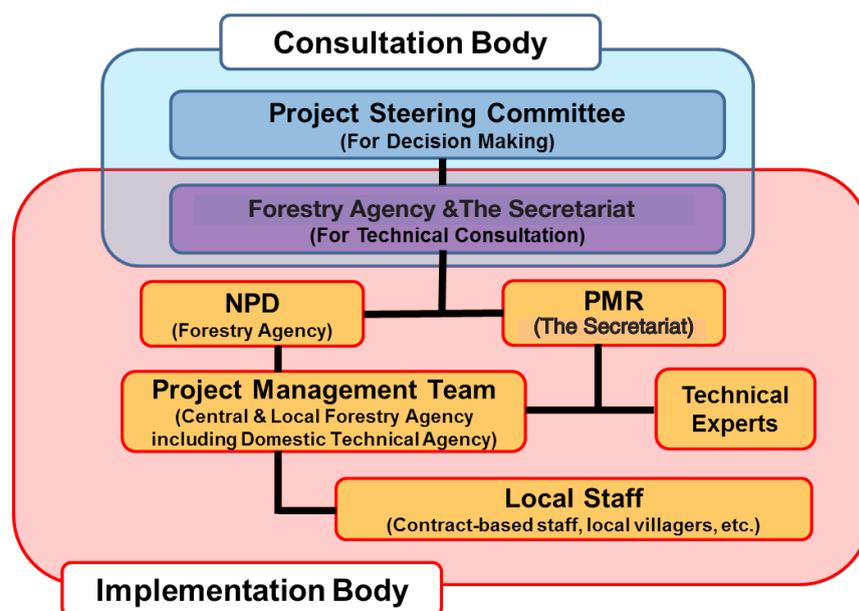


Figure 3-7. General organizational structure for Component 3*
 (*The detailed list of each implementation's structure country is different.)

The consultation body is comprised of the project steering committee (PSC) for decision making as well as the forestry agency of each implementing country and the Secretariat for technical consultation. The implementation body consists of the National Project Director (NPD), the Project Manager for Restoration Component (PMR), the project management team, technical experts and local staff.



3.4 Annual Budget Plan

The total annual expenditure by the three implementing countries in 2017 is 749,263 USD, which accounts for 17% of the total budget for the component (4,500,000 USD) (Table 3-17).

Table 3-17. Total annual budget of each implementing country

Implementing Country	Annual Budget (USD)	Cumulative Expenditure Rate of Total Budget (2016-2017)
Cambodia	205,715	35.1%
Lao PDR (Paksong)	79,650	35.7%
Lao PDR (Sangthong)	111,750	41.6%
Viet Nam	352,148	46.7%
Total	749,263	40.2%





4. Development of Advocating Activities (Component 4)

4.1 Basic Direction

Considering the current state of Member Countries, there is a need to develop a framework that facilitates the raising of public awareness for forest conservation as well as to improve communication among stakeholders at various levels. In this regard, Component 4, “Development of Advocating Activities” of the Landmark Program aims to promote all 4 components of the Landmark Program and the importance of the socio-economic prosperity of local communities.

It will enable the Landmark Program to establish a good reputation as a program that specializes in international cooperation within the forestry sector by publicizing its accomplishments and sharing knowledge for sustainable forest management.

4.2 Implementation Procedure and Schedule

Component 4 focuses on the public advocacy activities: 1) promotion of Landmark Program activities and 2) production of promotional materials. The detailed schedule for the activities of Component 4 in 2017 is described in Table 4-1.

4.2.1 Public advocacy activities

There are diverse ways to raise public awareness of the Landmark Program. It can be done through specifically-planned events such as capacity-building or awareness-raising workshops and conferences, as well as through the dissemination of information via social networking services, websites, publications and newspapers. Success in public advocacy activities requires a deep understanding of interests and concerns of each stakeholder. Public advocacy activities encourage the stakeholders to communicate with each other and to meet with their counterparts to exchange information.

4.2.2 Promotion of Landmark Program activities

The Landmark Program has constantly promoted the activities for 2017 through the official AFoCO website and AFoCO RETC website, social networking services of the Landmark Program and mass media such as newspapers, before and after the activities take place.

Following the development of the AFoCO RETC website, dissemination of information on the Landmark Program Training Courses will be strengthened. Social networking services allow us to update in real time to spread information to other people and organizations and networks with people who share similar interests and have similar backgrounds.

4.2.3 Production of promotional materials

In order to disseminate information and knowledge to Member Countries, the Landmark Program plans to publish the following items: 1) 2016 Annual Report; 2) 2017 Annual Plan; 3) brochures for the Landmark Training Courses, the Landmark Scholarship Program and the restoration projects under Component 3; and 4) materials related to the activities for 2017.

During the implementation of projects, if necessary, materials related to the activities for 2017 will be issued and distributed to the Member Countries of the Landmark Program. The published reports may also be downloaded from the AFoCO website to facilitate the sharing of information with the Member Countries.

Table 4-1. Schedule for the activities of Component 4 in 2017

Implementation Procedures	Schedule in 2017											
	1	2	3	4	5	6	7	8	9	10	11	12
1. Public advocacy activities												
1.1 Promotion of the Landmark Program activities												
- AFoCO / AFoCO RETC website												
- Social networking services												
- Mass media												
1.2 Production of promotional materials												
- 2016 Annual Report												
- 2017 Annual Plan												
- Brochures												
- Materials related to activities												

4.3 Organizational Structure

An organizational structure is necessary to systematically carry out the activities under Component 4 of the Landmark Program. The proposed organizational structure for Component 4 is depicted in Figure 4-1. The implementation body of Component 4 is composed of the PM, the suppliers, Member Countries and others.

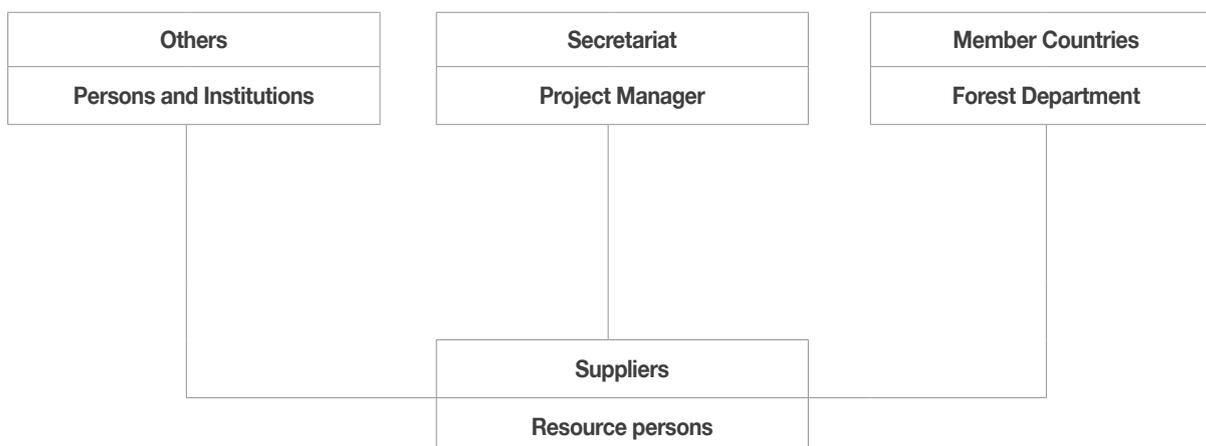


Figure 4-1. Organizational structure for Component 4

4.4 Annual Budget Plan

The total annual budget for Component 4 is 42,303 USD. The budget of each item is described in Table 4-2.

Table 4-2. Budget plan for Component 4 for 2017

Items	Budget (USD)
1. Promotion of Landmark Program activities	12,303
2. Production of promotional materials	30,000
Total	42,303



