



**Training Proposal  
on Establishing School Garden for Nutrition, Literacy, and Entrepreneurship**

**Toward Implementing**

**SEAMEO College Research 6: A Participatory Action Research on School and  
Community-based Food and Nutrition Program for Literacy, Poverty Reduction and  
Sustainable Development: Pilot Project in Indonesia**

**Lead Implementing Organization:**

**SEAMEO BIOTROP**

**In collaboration with:**

**SEAMEO RECFON and SEAMEO SEAMOLEC**

**A. Background and Rationale**

Schools and communities have long been proven as effective entry points for introducing new ideas and programmes for societal development including matters related to health, literacy, livelihood, and environmental awareness. In Indonesia, one successful program to raise environmental awareness involving schools is the *sekolah adiwiyata* being implemented by the Ministry of Environment and Forestry since 1977. Every year, more and more schools apply to become *sekolah adiwiyata* which produces more environmentally-aware citizenry. Between 2012 and 2014, the program has targeted around more than 6,000 schools to become *sekolah adiwiyata*. On ensuring health and nutrition of children and mothers, another successful government program is the operation of community health centres or what is commonly known as Posyandu (Post Pelayanan Terpadu) since the 1980s. The Posyandu is a free integrated health service centre that is run by a community, specifically by a group of mothers from 40-100 households, under the supervision of paramedics, to help each other in monitoring growth and health of babies and young children. The government has also instituted thousands of community learning centres since the mid 2000 which were meant to enhance basic literacy, life skills for livelihood and entrepreneurship, culture appreciation, and community empowerment. These programs, however, are operating independently from each other.

The Southeast Asian Ministry of Education Organization (SEAMEO) has recently conceptualized a Participatory Action Research Project on School and Community-based Food and Nutrition Program for Literacy, Poverty Reduction and Sustainable Development as a research component of its SEAMEO College initiative. SEAMEO BIOTROP has been designated as the lead implementing organization for this project in collaboration with SEAMEO RECFON and SEAMEO SEAMOLEC. SEAMEO BIOTROP shall be responsible in providing technical assistance on the agriculture and environmental protection component of the project,

while SEAMEO RECFON and SEAMOLEC will share their expertise on health and nutrition and distance learning, respectively.

The project has the following objectives:

1. To increase diversity and availability of food that will meet the nutritional needs of school children, their families and Communities;
2. To capacitate students and teachers on food production and nutrition through experiential learning activities that inculcate the importance of agriculture, environmental concerns, and the use of locally adapted green technologies; and
3. To help reduce families and communities' food expenses, create savings, and provide an alternative income to address poverty and access learning opportunities.

The Project will involve at least 50 primary and secondary schools in at least five provinces in Indonesia. It will consist of 3 main activities, namely: mobilization and needs assessment of participating schools, training for school representatives on school gardening, and preparation and initial implementation of school garden plans. In the interest of time, BIOTROP has decided to integrate these three activities during the conduct of this training course on "Establishing School Gardens for Nutrition, Literacy and Entrepreneurship among Primary and Secondary Schools in Indonesia".

## **B. Objectives of the Training**

In general, the training aims to level off the expectations and understanding of the participants about the Project and eventually ensure their full commitment for its implementation in their respective schools.

The following are the specific objectives:

1. To assess current status and needs of the participating schools in terms of nutrition, literacy, and entrepreneurship;
2. To enable the participants to internalize the importance of nutrition to the educational development of school children;
3. To provide the participants with basic knowledge and skills on school garden models and agriculture technologies that could be adopted in a school garden setting;
4. To introduce the concepts and principles of online teaching system to support literacy development in the context of school garden; and
5. To enable the participants to design their school garden plans for their respective schools.

## **C. Target Schools and Communities**

The target schools for the project will consist of 20 primary schools and 30 secondary schools from at least five provinces of Indonesia. The schools would either come from East Java, Central Java, West Java, DKI Jakarta, Jogjakarta, East Kalimantan, Central Kalimantan, and Riau. The types of secondary schools could include vocational, senior high, and special education schools. The participants could either be headmasters or teachers who are directly engaged in community-related activities of their respective schools.

#### **D. Resource Person and Training Instructors**

Resource persons and instructors are mainly from SEAMEO BIOTROP, SEAMEO RECFON and SEAMEO SEAMOLEC. One prominent Professor of Agronomy from the Bogor Agricultural University who has expertise on horticulture (vegetable and fruits) and agricultural community entrepreneurship, Prof. Anas D Susilo, will be invited as a resource person for the training.

#### **E. Date and Venue**

The training will be conducted on 27-31 March 2016 at SEAMEO BIOTROP headquarter in Bogor, West Java, Indonesia.

#### **F. Program Schedule of the Training**

Please refer to Attachment A for the Schedule of Activities of the training.

#### **G. Expected Outputs of the Training**

SEAMEO BIOTROP and its partner SEAMEO Centres are expected to come up with a completion report that would contain, among others, the following:

1. Compilation of the current status and needs of the participating schools in terms of nutrition, literacy, and entrepreneurship
2. Compilation of lecture materials from resource persons
3. Compilation of school garden designs/action plans of the participating schools

#### **H. Timeframe to Achieve the ToR of this Project**

<b>Activity</b>	<b>Implementation Dates</b>	<b>In-Charge</b>
Conduct of Training to include: 1. Assessment of Current Status and Need of participating schools in nutrition, literacy, and entrepreneurship  2. Action planning of establishing school gardens by the participating schools	27-31 March 2016	All 3 SEAMEO Centres  SEAMEO BIOTROP
Extending Technical Assistance to participating schools in establishing their school gardens	1-29 April 2016	SEAMEO BIOTROP
Writing of Completion Report	1-27 May 2016	All 3 SEAMEO Centres
Submission of Completion Report to SEAMES/ADB	30 May 2016	SEAMEO BIOTROP

## **I. Budget**

The three SEAMEO Centres involved in this project will utilize the Eight Thousand United States Dollars (US\$ 8,000.00) that will be provided by ADB through SEAMES to conduct this project. They will also be contributing their available financial as well as human and physical resources in support of this project.

## Attachment A:

**TRAINING PROGRAM OF ACTIVITIES**

<b>Date &amp; Time</b>	<b>Activities</b>	<b>Person(s) in Charge</b>
<b>27 March</b> 09.00 – 16.00	Arrival of Participants/Check-in at BIOTROP Dormitories  Filling up of Needs Assessment Survey	Capacity Building Unit (CBU) Staff  Participants
16.00 – 17.00	Registration and afternoon snacks at BIOTROP Jati Room	CBU Staff
17.00 – 18.00	Opening Program at BIOTROP Jati Room <ul style="list-style-type: none"> <li>• Welcome Remarks from BIOTROP Director</li> <li>• Overview of the School Garden Project of SEAMEO College from SEAMES Deputy Director for Program</li> <li>• Opening Remarks from SEAMES Director</li> </ul>	Dr. Irdika Mansur Mr. Avelino Mejia, Jr. Dr. Gatot Hari Priowirjanto
18.00 – 18.45	Break/Evening Prayer	
18.45 – 20.45	Welcome Dinner at MIT Room	
<b>28 March</b> 08.15 – 08.30	Ceremonial Harvesting of BIOTROP Hydroponic – grown vegetables	SEAMES and BIOTROP Officials to be witnessed by Training Participants
08.30 – 10.00	Lecture-discussion: Importance of Nutrition in Educational Development of School Children in Indonesia	Dr. Luh Ade, SEAMEO RECFON
10.00 – 10.30	Coffee Break	
10.30 – 12.30	Lecture-discussion: Household-scale Composting of Solid Organic Wastes	Dr. Arief Sabdo Yowono, SEAMEO BIOTROP
12.30 – 13.30	Practicum: Household-scale Composting of Solid Organic Wastes	Dr. Arief Sabdo Yowono, SEAMEO BIOTROP
<b>29 March</b> 08.15 – 10.15	Lecture-discussion: School Garden Models for Nutrition, Literacy and Entrepreneurship	Prof. Anas D. Susila, IPB
10.15-10.45	Coffee Break	
10.45 – 12.15	Lecture-discussion: Hydroponic production of leafy and fruit vegetables	Dr. Arief Sabdo Yowono, SEAMEO BIOTROP
12.15 – 13.30	Lunch Break	
13.30 – 16.00	Practicum: Hydroponic Production of Leafy and Fruit Vegetables	Ms. Riana, BIOTROP

Cont.

<b>Date &amp; Time</b>	<b>Activities</b>	<b>Person(s) in Charge</b>
<b>30 March</b>		
08.15 – 10.00	Lecture-Discussion: Vegetable Cultivation	Mr. Didi Junaedi, BIOTROP
10.00 – 10.30	Coffee Break	
10.30 – 12.00	Practicum: Vegetable Cultivation	Mr. Didi Junaedi, BIOTROP
12.00 – 13.30	Lunch Break	
13.30 – 15.00	Lecture-discussion and Demonstration: Facilitating School Gardening Learning through Online Material Development and Teaching	SEAMOLEC Staff
15.00 – 15.30	Coffee Break	
15.30 – 17.00	Orientation and Discussion on the Mechanics for Action Planning: Conceptualizing a School Garden Project	Dr. Jess Fernandez, BIOTROP
Evening	Preparation of Action Plans	Participants
<b>31 March</b>		
08.15 – 10.00	Presentation of Participants' Action Plans	Dr. Irdika Mansur, BIOTROP
10.00 – 10.15	Coffee Break	
10.15 – 11.00	Presentation of Participants' Action Plans	Dr. Irdika Mansur, BIOTROP
11.00 – 11.15	Training Evaluation by Participants	CBU Staff
11.15 – 12.00	Closing Program	CBU Staff
12.00 – 13.00	Farewell Lunch	
Afternoon	Departure of Participants	