JAIF PROJECT PROGRESS REPORT

PROJECT TITLE:	Taxonomic capacity building to support market access for agricultural trade in the ASEAN region				
PROJECT PROGRESS REPORT:	1st 2nd 4th	5th 6th 7 th XXX			
PROJECT START AND END DATES	From: MAY 2015	To: JUNE 2018			
PERIOD COVERED BY THIS REPORT:	From: 1 FEBRUARY 2018	To: 30 JUNE 2018			
IMPLEMENTING AGENCY:	ASEAN Plant Health Cooperation Network (APHCN) - ASEANET				
	Names: DR LUM KENG YEAN DR SOETIKNO S. SAST	G (Chairperson & Project Manager) & ΓROUTOMO (Technical Secretary)			
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OVERVIEW:

Briefly describe: (i) the objective of the project; (ii) progress in project implementation to date; (iii) any particular issues faced and/or results achieved during this reporting period.

(i) **Overall objective:**

The project will develop and strengthen capacities in taxonomic knowledge to identify and manage quarantine risks associated with agricultural commodities and to accurately diagnose pests and diseases among the ASEAN Member States (AMS).

Intermediate objective: To increase taxonomic capacity of scientists/officers from AMS in 3 groups of insect pests and diseases, i.e. in plant viruses, aphids and leaf miners of agricultural importance.

(ii) **Progress till JUNE 2018:**

No activity we carried out in the period from January to June 2018, except for the Technical Secretariat to prepare a Progress Report for submission to the 20th Meeting of the Expert Working Group on Harmonisation of Phytosanitary Measures in ASEAN (EWG-PS) held in Nay Pyi Taw, Myanmar from 9-10 July 2018 (Full report is given as **ANNEX 1**).

Fifty project briefs were distributed to the participants of 2(two) Training Workshops organized by AANZ-FTA Program related to ARDN in Chiang Mai and Bangkok, Thailand. In addition, the website for this project has been updated with the uploading of the 6th Progress Reports of the Project, training materials, and reference materials and reports of the attachment program.

The Attachment Program on Diagnostics of Weevils of Quarantine Importance was originally planned to be organized in October 2017. However, after consultation with the resource persons (International & Regional) and also through intensive communication by e-mail, the attachment can now only be organized in mid-November 2018 for six weeks with coordinator from Tokyo University of Agriculture. A revised proposal on this attachment has been submitted to JAIF Management Team through ASEAN and approval for implementation has been granted on 9th August 2018.

(iii) Results:

The following outputs have been achieved:

- 1. Progress Report of the JAIF Project for the 20th Meeting of the Expert Working Group of Harmonisation of Phytosanitary Measures in ASEAN (EWG-PS).
- 2. Updated Project Website (http://aseanet.org/JAIF1.asp)
- 3. Revised proposal and tentative program for the Attachment Program on Diagnostics of Weevils of Quarantine Importance in Japan.

PART A: PROGRESS & RESULTS

A. **PROGRESS & ACHIEVEMENTS:**

Describe progress in implementation during this reporting period, including key outputs/outcomes, based on the approved project document.

1. Attachment Program on Diagnostics of Weevils of Quarantine Importance

The revised proposal has been approved by the Japanese Government through ASEAN Secretariat on 9th August 2018. The program will be implemented from 7 November to 19 December 12018.

Three participants, each from Vietnam, Thailand, and Indonesia have been selected by the resource persons of the Training Workshop on Diagnostics of Weevils of Quarantine Importance held at UPLB, Philippines in 2017. During the 1.5 month program, they will be attached to several laboratories in Japan, i.e. Tokyo University of Agriculture (NODAI) Setagaya and Atsugi campuses, and Tsukuba Post-entry Quarantine Centre & Yokohama Plant Protection Research Centre both under the Ministry of Agriculture, Forestry and Fisheries (MAFF). Through this attachment, the participants would be able to gain more in-depth knowledge on taxonomical identification of weevils of quarantine importance, to broaden their diagnostic capability, to increase competency to handle all pest diagnosis, and to widen their experience on weevil collection and preservation. The acquired information and skills would be useful to build up the confidence of the participants thus contributing to capacity development of their Institution or their representative country. The program will be coordinated by Tokyo University of Agriculture (NODAI), Japan (see **ANNEX 2**)

3. Project Monitoring & Evaluation (See ANNEX 3)

In compliance with donor requirements, and to complement the 1st monitoring and evaluation that we have organised, the 2nd M&E was also carried out in the form of an output survey that targeted personnel from ASEAN Member States (AMS) who participated in the 2-months Attachment Program organized under the Project. Six participants from the 2-attachment program, i.e. on Diagnostics of Plant Viruses and on Diagnostics of Leafminers of Quarantine Importance were selected in this M&E. The survey revealed that:

- All six participants are currently still working in the same field and involved in implementing projects in the same field of training,
- Three participants indicated they can identify sample specimens to species level, others use molecular techniques or submit them to other scientists for identification,
- All participants except one have since received sample specimens from other divisions of their own institutes and also from other institutions for diagnosis,

- All participants have given or organized training, formal or informally, in their section or department or in public,
- Four participants indicated they were using materials from the attachment program to teach in the training,
- All participants indicated they will continue to be involved in projects of the same technical area in the next 2 years,
- Some constraints are faced by participants in their annual budget allocations from their department to support their research & development plans,
- In the short period following their attachment, one participant has written several papers related to the attachment and research for publication,
- One participant is currently doing a MSc course in Kyushu University. His research is related to Sri Lanka cassava mosaic virus, working together with Prof. Natsuaki of Nodai, his supervisor during the attachment program, under the regional project on "Development and Dissemination of sustainable production system based on invasive pest management of Cassava in Vietnam, Cambodia and Thailand" funded by JICA and JST, Japan.
- 4. End Project Meeting: This planned meeting would involve members of the Project Steering Committee and would only be implemented upon completion of the Attachment Program on Weevils, and the draft Final Project Report is prepared for discussion at the meeting. It is proposed that the meeting be organized in late February 2019.

B. TIMEFRAME AND BUDGETING

Explain whether the project is on-track with regard to: (i) the budget; and (ii) the original timeframe. If either the expenditures and/or timeframe are off-track, please explain and describe the corrective actions being taken.

Request for Project Extension: Project implementation is behind schedule, as a result of the delay in the implementation of one activity of the Component 1-1: Attachment Program on Diagnostics of Weevils of Quarantine Importance which would have started in November 2018. Therefore, request for another project extension with no cost has been submitted to JAIF Management Team through the ASEAN Secretariat in June 2018. In 9th August 2018 we received a letter from the ASEAN Secretariat that our request for Project extension until March 31, 2019 has been approved by the Japanese Government.

Project Budget

Budget expenditure during this reporting period was only US\$ 34,163.13 (Annex 4).

C. OTHER IMPLEMENTATION ISSUES

Describe any significant changes to the project design, context or partners during the reporting period, or any other issues faced, and actions that are being taken in response, if appropriate.

One additional activity on "Study visit to Japan national SPS/Plant Health laboratories cum Training workshop on the Identification of Fruit Flies" has been successfully implemented from 18 November to 2 December 2017.

D. OTHER COMMENTS:

Please provide any other relevant information or observations on the project, e.g. on lessons learned, particular challenges or issues that may arise in the next reporting period, changes to the logframe, etc.

Proposal for JAIF Phase 2 Project

The 2nd revision of the Phase 2 proposal has been prepared with 2 (two) training workshops and 1 (one) attachment program in Japan, i.e. on:

a). Training workshop on Diagnostic of Plant Parasitic Nematodes to be held in Indonesia with a Japanese resource person, Dr. Prof. Dr. Hideaki Iwahori from Department of Bioresource Sciences, Faculty of Agriculture, Ryukoku University, Otsu, Shiga 520-2194, Japan.

b). Training workshop on Diagnostics of Begomovirus and the Use of LAMP-PCR to be held in the Philippines with a Japanese resource person, Prof. Dr. Masashi Ugaki from Laboratory of Bioresource Technology, Department of Integrated Biosciences, Graduate School of Frontier Science, The University of Tokyo, Kashiwa-shi, Chiba-ken 277-8561, Japan.

c). Attachment program on Diagnostic of Plant Parasitic Nematodes to be held at the Department of Bioresource Sciences, Faculty of Agriculture, Ryukoku University, Otsu, Shiga 520-2194, Japan under the supervision of Prof. H. Iwahori.

The total budget for JAIF Phase 2 Project has been further reduced now to only US\$ 379,163.-

The revised proposal under new format of ASEAN Project has been submitted to ASEC and JAIF Management Team on 29th June 2018 for their funding consideration and approval (see **ANNEX 5**).

Provide a list of key documents (e.g. mission reports, training materials, workshop reports, etc.) produced during this reporting period. Copies of the final versions of these documents should be attached to this report.

- 1. Progress Report of the JAIF Project for the 20th Meeting of the Expert Working Group of Harmonisation of Phytosanitary Measures in ASEAN (EWG-PS).
- 2. Revised proposal for the Attachment Program on Diagnostics of Weevils of Quarantine Importance
- 3. JAIF Phase 1 2nd Project Monitoring & Evaluation (Attachment Program)
- 4. Financial Report from 1 February to 30 June 2018
- 5. Revised proposal for JAIF Phase 2 Project under new format of ASEAN Project

JAIF FUNDED PROJECT ON "TAXONOMIC CAPACITY BUILDING TO SUPPORT MARKET ACCESS FOR AGRICULTURAL TRADE IN THE ASEAN REGION"

REPORT TO:

ASEAN EXPERTS WORKING GROUP FOR THE HARMONISATION OF PHYTOSANITARY MEASURES (EWG-PS) & ASEAN SECTORAL WORKING GROUP ON CROPS (ASWGC)

Na Pyi Taw, Myanmar, 9-10 July 2018

PROGRESS OF THE PROJECT

1. Training Workshop on Diagnostics of Weevils of Agricultural Importance

The training workshop was organized in the Philippines with the collaboration of the Institute of Weed Science, Entomology and Plant Pathology (IWEP), UPLB, Los Banos-Philippines from 10-22 July 2017. The training workshop was coordinated by Dr. Sheryl A. Yap from IWEP-UPLB, assisted by Dr. Priscilla Barcial and graduate students. Several senior lecturers from UPLB, e.g. Dr. Pio Javier, Research Professor, Dr. Celia dR. Medina, Associate Professor, Dr. Barbara L. Caoili, Professor contributed. The only resource person from Japan was Dr. Hiraku Yoshitake from the Institute of Agro-Environmental Sciences, NARO, Tsukuba. Nineteen participants from 10 ASEAN member states (2 each from Brunei, Cambodia, Indonesia, Laos, Malaysia, Myanmar, Philippines, Thailand and Vietnam, and one from Singapore) attended the training workshop.

The 2-weeks Training Workshop comprised 12 sessions, i.e. Opening Program & Introduction, Habitat Identification of Weevils, Weevils in Agricultural Crops, Field Collection in Storage Facilities and Agricultural Areas, Weevils as Storage Pests and their Control, Collection and Preservation Techniques, DNA Sequencing, Quarantine Policies, Information Resources on Weevils from the Web, and Training Evaluation and Closing Program.

To fully assess the comprehension of each of the participants, a one-hour post evaluation test in the form of an exam was administered covering the lectures taught in the training course. An evaluation form was also distributed to trainees to assess the effectiveness of the training workshop in fulfilling the proposed objectives as well as the efficiency of the training team. Based on the result of the test, performances in the class and laboratory as well as the evaluation results, the 5 resource persons involved in the training selected 3 participants for the 2-months attachment program in Japan, pending approval from JAIF MT and their superiors.

2. Study Visit & Training Workshop on Identification of Fruitflies in Japan

This activity was in the priority list of proposed activities (in total 10 activities) endorsed by the 18th Meeting of the ASEAN EWG-PS held in Vientiane, Lao PDR from 18-19 July 2016.

The Study Visit & Training Workshop has been organized by Prof. Dr. Keiko NATSUAKI, Dean, Graduate School of Agriculture, Tokyo University of Agriculture, Japan in collaboration with the Plant Quarantine Office, Ministry of Agriculture, Forestry and Fisheries (MAFF), Japan from 18th November to 2nd December 2017. Nine participants from the ASEAN member states accompanied by a coordinator from ASEANET-APHCN, participated in the study visit and training. The following institutions in Japan were visited, during which lectures, demonstrations and practical were given to all participants, especially related to fruitflies.

The objective of the Study Visit and Training Workshop on the Identification of Fruit Flies in Japan were as follows:

- 1. To have an overview on the plant quarantine and plant protection system in Japan
- 2. To understand the functions and operations of each division under the plant quarantine system of Japan (domestic and international quarantine, export and import divisions, Pest Risk Analysis, etc.)
- 3. To visit the Research Center in Tsukuba and Haneda, Yokohama & Nara Plant Protection Station
- 4. To discuss, learn and share field experiences in plant quarantine (inspection, interception, and identification of exotic pests, e.g. fruit flies) with Japanese plant quarantine officers

Specific objectives of the Study Visit were to obtain a general idea of how Japan operates its plant protection by visiting several facilities and be familiarized with fruit flies' issues, such as pest risk analysis, ecological research, inspection, diagnostics using molecular technology and other regulatory perspectives.

The soft copy of report of the attachment program is available upon request.

3. Proposal for Extension of JAIF Project

A proposal for a further extension of the Project until March 2019 has been submitted to ASEAN Secretariat and JAIF Management Team for consideration.

The project is currently due to end on 30th June 2018 but after a recent progress review, it is projected that several activities will not be completed within the current extension timeframe and will consequently delay the final delivery of the project. A summary of the outstanding activities and the causes are outlined below:

a). Attachment program on Weevils of Quarantine Importance - The implementation of this program could only be arranged after the training workshop in July 2017 is completed. Originally, we are planning to organize this in September/October 2017 after consultation with the resource persons (International & Regional) during the training at UPLB, Philippines. However, after consultation with the resource persons and also through intensive communication by e-mails the attachment could only be organized in mid-January 2018, with one month each in the Philippines and Japan. As this proposed attachment program with arrangement of field trips by 2 Japanese resource persons in the Philippines and 1 Philippine resource person in Japan was not part of the originally approved activity (and budget), therefore, the proposal has to be revised to the original activity and budget. The new proposed program for attachment is now agreed to be organized in November 2018

b). End Project Meeting – The meeting would involve members of the Steering Committee and would only be implemented after the above Attachment Program has been completed and the draft Final Project Report prepared for discussion at the meeting. It is now proposed that the meeting be organized for early February 2019.

The estimated time needed to finalize all planned activities and production of the final report would not exceed an additional nine months. Therefore, we would like to propose a nine-month extension until **the end of March 2019.** This would give the Project Manager an opportunity to complete all activities and to prepare a comprehensive Final Project Report for submission to ASEAN Secretariat.

We are still awaiting approval from the Government of Japan.

4. Printing of 3 (three) Training Workshop Reports

The 3 (three) training workshop reports have been printed, i.e.:

a). Report of the JAIF funded Training Workshop on Diagnostics of Plant Viruses,

b). Report of the JAIF funded Training Workshop on Diagnostics of Leaf-miners,

c). Report of the JAIF funded Training Workshop on Diagnostics of Weevils of Quarantine Importance

Fifty copies each of the reports will be distributed during this meeting.

5. Proposal for JAIF Phase 2 Project

The 2nd revision of the Phase 2 proposal has been prepared with 2 (two) training workshops and 1 (one) attachment program in Japan, i.e. on:

a). Training workshop on Diagnostic of Plant Parasitic Nematodes to be held in Indonesia with a Japanese resource person, Dr. Prof. Dr. Hideaki Iwahori from Department of Bioresource Sciences, Faculty of Agriculture, Ryukoku University, Otsu, Shiga 520-2194, Japan.

b). Training workshop on Diagnostics of Begomovirus and the Use of LAMP-PCR to be held in the Philippines with a Japanese resource person, Prof. Dr. Masashi Ugaki from Laboratory of Bioresource Technology, Department of Integrated Biosciences, Graduate School of Frontier Science, The University of Tokyo, Kashiwa-shi, Chiba-ken 277-8561, Japan.

c). Attachment program on Diagnostic of Plant Parasitic Nematodes to be held at the Department of Bioresource Sciences, Faculty of Agriculture, Ryukoku University, Otsu, Shiga 520-2194, Japan under the supervision of Prof. H. Iwahori.

The total budget for JAIF Phase 2 Project has been further reduced now to only US\$ 379,163.-

The revised proposal has been submitted to ASEC and JAIF Management Team for their funding consideration and approval.

ANNEX 2: ATTACHMENT PROGRAM ON WEEVILS OF QUARANTINE IMPORTANCE WITH SPECIAL EMPHASIS ON STORED PRODUCT INSECT PESTS

Funded by the Japan-ASEAN Integration Fund (JAIF)

1. BACKGROUND INFORMATION

The ASEAN Plant Health Cooperation Network (APHCN) – ASEANET Project **"Taxonomic capacity building to support market access for agricultural trade in the ASEAN region"**, funded by the Japan ASEAN Integration Fund (JAIF) successfully held its capacity building activity, entitled "Training Workshop on Diagnostics of Weevils of Quarantine Importance", from 10th to 22nd July 2017 at Institute of Weed Science, Entomology and Plant Pathology, University of the Philippines Los Baños, Los Baños, Laguna, Philippines. Based on the recommendation of the resource persons, three participants showed outstanding performance and interest on weevils during the training. These three outstanding participants will be endorsed

for the 2nd Phase of the Training Workshop on Diagnostics of Weevils of Quarantine Importance which is a 2-month attachment training program organised by the ASEAN Plant Health Cooperation Network (APHCN) of ASEANET. The three participants will be trained to improve their diagnostic capability and enhance diagnostic resources in the ASEAN. This is also in line with the APHCN-ASEANET project "Taxonomic capacity building to support market access for agricultural trade in the ASEAN region".

The three selected participants are from Vietnam, Thailand, and Indonesia. During the 1.5 month program, they will be attached to several laboratories in Japan, i.e. Tokyo University of Agriculture (NODAI) Setagaya and Atsugi campuses, and Tsukuba Post-entry Quarantine Centre & Yokohama Plant Protection Research Centre both under the Ministry of Agriculture, Forestry and Fisheries (MAFF). Through this attachment, the participants would be able to gain more in-depth knowledge on taxonomical identification of weevils of quarantine importance, to broaden their diagnostic capability, to increase competency to handle all pest diagnosis, and to widen their experience on weevil collection and preservation. The acquired information would be useful to build up the confidence and skills of the participants thus contributing to capacity development of their Institution or their representative country.

2. OBJECTIVES OF THE ATTACHMENT

The objectives of the attachment program are:

a). To transfer skills and knowledge of weevil experts specifically Japanese experts on Weevils to counterparts in ASEAN countries so as to increase capacity, experience, and knowledge of the participants in the diagnostics of pests and taxonomic identification.

b). To strengthen the diagnostic capacity by providing participants with practical understanding of the concept of weevils, their identification and current management practices, and

c). To tap these selected and trained participants who would undergo more intensive technical training and subsequently serve as potential ASEAN resource persons on the identification of weevils using their gained expertise to the benefit of all ASEAN member states and the ASEAN Diagnostic Network.

3. DATE OF ATTACHMENT: November 7 to December 19, 20018

4. CONTACT PERSONS DURING THE ATTACHMENT:

- a. Prof. Hiroaki Kojima (Weevil Systematist), Laboratory of Entomology, Tokyo University of Agriculture, Atsugi, Kanagawa, 243-0034 Japan
- b. Prof. Keiko Natsuaki and Dr. A. Tsuji, Graduate School of Agriculture, Tokyo University of Agriculture, Sakuragaoka, Setagaya-ku, Tokyo 156-8502, JAPAN
- c. Mr. Yukio Yokoi, Director, Research Division, Yokohama Plant Protection Station, Ministry of Agriculture, Forestry and Fisheries (MAFF) of Japan. E-mail: yokoiy@pps.maff.go.jp

5. PROGRAM OF ATTACHMENT (TIME TABLE):

The following program has the agreement of the above resource persons.

Date	Activities	Responsible Scientist(s)
Nov 7 (Wed)	Arrival in Tokyo	NODAI staff
Nov 8 (Thurs)	Briefing and Orientation at NODAI; Light dinner reception	Natsuaki & staff
Nov 9 (Fri)	Visit to Kagaku Mirai-kan Museum	NODAI staff
Nov 10 (Sat)	Visit to Tama Insect Collection Museum on Stored Product Pests	NODAI staff
Nov 11 (Sun)	Holiday	
Nov 12 (Mon)	Transfer to Yokohama	All participants
Nov 13 (Tue)	Introduction to Plant Protection Research Centre and lectures on plant protection in Japan	Yokohama Plant Protection Centre
Nov 14 (Wed)	Morphological characters of stored product insects	Yokohama Plant Protection Centre
Nov 15 (Thurs)	Collection of stored product insects from the field	Yokohama Plant Protection Centre
Nov 16 (Fri)	Museum and lab work on stored product insects	Yokohama Plant Protection Centre
Nov 17 (Sat)	Holiday	
Nov 18 (Sun)	Holiday	
Nov 19 (Mon)	Presentation by participants on plant protection in their country and major storage insect pests	Yokohama Plant Protection Centre
Nov 20 (Tue)	Making specimens of storage pest insects	Yokohama Plant Protection Centre
Nov 21 (Wed)	Identification of storage pest insects collected by participants	Yokohama Plant Protection Centre
Nov 22 (Thurs)	Identification of storage pest insects collected by participants	Yokohama Plant Protection Centre

Nov 23 (Fri)	Preparing report of attachment at Yokohama	Yokohama Plant Protection Centre
Nov 24 (Sat)	Participants travel to Tokyo	All participants
Nov 25 (Sun)	Free Day	
Nov 26 (Mon)	Move to Tsukuba and visit Botanical Garden	Tsukuba Post-entry Station, MAFF
Nov 27 (Tue)	Visit Agriculture Chemical Industry for storage pests	Tsukuba Post-entry Station, MAFF
Nov 28 (Wed)	Visit Post-entry Quarantine Centre of MAFF	Tsukuba Post-entry Station, MAFF
Nov 29 (Thurs)	Visit Miyanoshita laboratory	Tsukuba Post-entry Station, MAFF
Nov 30 (Fri)	Visit Tropical Fruits Company importing from SE Asia	Tsukuba Post-entry Station, MAFF
Dec 1 (Sat)	Travel to Tokyo	All participants
Dec 2 (Sun)	Travel to NODAI Atsugi campus	All participants
Dec 3 (Mon)	Introduction of entomology laboratory and its facilities	Kojima & his student
Dec 4 (Tue)	Weevils systematic and classification	Kojima & his student
Dec 5 (Wed)	Weevils systematic and classification – Laboratory work	Kojima & his student
Dec 6 (Thurs)	Collection and preparation of weevil samples	Kojima & his student
Dec 7 (Fri)	Preparation of weevil specimens collected by participants	Kojima & his student
Dec 8 (Sat)	Sorting of weevil specimens into family, subfamily or tribe level	Kojima & his student
Dec 9 (Sun)	Holiday	Kojima & his student
Dec 10 (Mon)	Sorting and observation of other insect taxa	Kojima & his student
Dec 11 (Tue)	Visit to Kanagawa Prefecture Museum of Natural History	Kojima & his student
Dec 12 (Wed)	Visit to pest control company	Kojima & his student
Dec 13 (Thurs)	Preparation for presentations by participants	All participants
Dec 14 (Fri)	Presentations by participants on study at Atsugi	All participants & Kojima
Dec 15 (Sat)	Travel to Tokyo	All participants
Dec 16 (Sun)	Rest day	
Dec 17 (Mon)	Preparation for presentation and report writing on the Attachment program in Japan	All participants
Dec 18 (Tue)	Presentation and Farewell Dinner at NODAI, Setagava	All participants &
Dec 19 (Wed)	Departure of participants	· · ·

5. EXPECTED OUTPUTS

- a) The participants are expected to be able to identify weevils of quarantine importance up to genus level.
- b) The participants are expected to have in-depth knowledge on the proper methodology in collecting and preserving weevils.
- c) The participants are expected to participate or act as resource persons and/or transfer their skills and knowledge to his/her co-workers or other stakeholders in need of such expertise.

6. PROPOSED BUDGET FOR THE ATTACHMENT PROGRAM

The proposed budget for the revised program of attachment is **US\$ 56,052.00**. Please see **Annex 2** for details.

FOLLOW-UP EVALUATION FOR JAIF ATTACHMENT PROGRAM

Participant 1	Participant 2	Participant 3	Participant 4	Participant 5	Participant 6
-	Nur Fitriawati				
Norhayati binti Madiha		Tran Van Chien	CASTILLO ARIENE GARCIA	Yuvarin Boontop	MOHD SANUSI BIN MOHD KASIM
Attachment on Plant Viruses	Attachment on Plant Viruses	Attachment on Plant Viruse	Attachment on Leafminers	Attachment on Leafminers	Attachment on Leafminers
MSc (Plant Pathology)	MSc (Plant Pathology)	Master of Science (MSc)	MSc (Plant Pathology)	Ph.D	BSc
MSc (Plant Pathology)	MSc (Plant Pathology)	Master of Science (MSc)	MSc (Plant Pathology)	Ph.D	BSc
 Training on South America Leaf Blight of rubber in Brazil: 13th – 17th November 2017. Quality Infrastructure on Food Safety: 4th February – 3rd March 2018. 	None	Training course on information systems for Surveillance and Reporting held in Malaysia from 5th – 10th February 2017.	None	Molecular Diagnostics of fruit flies	None
Assistant Director G41	I was analyst at Virology Laboratory from Center Diagnostics Standard of Agricultural Quarantine (Indonesian Agriculture Quarantine Agency)	Technical Officer	Scientist	Entomologist (Professional level)	Technical Officer
Assistant Director G41	I am analyst and supervisor at Virology Laboratory from Center Diagnostics Standard of Agricultural Quarantine (Indonesian Agriculture Quarantine Agency)	Vice Head of Pest Surveillance and Monitoring Unit, Post- Entry Plant Quarantine Center No. 1, Plant Protection Department	Senior Scientist	Entomologist (Senior Professional level)	Technical Officer
	Participant 1 Norhayati binti Madiha Attachment on Plant Viruses MSc (Plant Pathology) 1. Training on South America Leaf Blight of rubber in Brazil: 13th – 17th November 2017. 2. Quality Infrastructure on Food Safety: 4th February – 3rd March 2018. Assistant Director G41	Participant 1Participant 2Norhayati binti MadihaNur FitriawatiAttachment on Plant VirusesAttachment on Plant VirusesMSc (Plant Pathology)MSc (Plant Pathology)MSc (Plant Pathology)MSc (Plant Pathology)1. Training on South America Leaf Blight of rubber in Brazil: 13th – 17th November 2017.MSc (Plant Pathology)1. Training on South America Leaf Blight of rubber in Brazil: 13th – 17th November 2017.None2. Quality Infrastructure on Food Safety: 4th February – 3rd March 2018.NoneImage: Additional and the second	Participant 1Participant 2Participant 3Norhayati binti MadihaNur FitriawatiTran Van ChienAttachment on Plant VirusesAttachment on Plant VirusesAttachment on Plant VirusesMSc (Plant Pathology)MSc (Plant Pathology)Master of Science (MSc)MSc (Plant Pathology)MSc (Plant Pathology)Master of Science (MSc)MSc (Plant Pathology)MSc (Plant Pathology)Master of Science (MSc)1. Training on South America Leaf Blight of rubber in Brazil: 13th - 17th November 2017.Training course on information systems for Surveillance and Reporting held in Malaysia from 5th - 10th February 2017.1. Tasistant Director G41I was analyst at Virology Laboratory from Center Diagnostics Standard of Agricultural Quarantine (Indonesian Agriculture Quarantine Agency)Technical Officer2. Assistant Director G41I am analyst and supervisor at Virology Laboratory from Center Diagnostics Standard of Agricultural Quarantine (Indonesian Agriculture Quarantine Agency)Vice Head of Pest Surveillance and Monitoring Unit, Post- Entry Plant Quarantine (Indonesian Agriculture Quarantine Agency)Vice Head of Pest Surveillance and Monitoring Unit, Post- Entry Plant Quarantine (Indonesian Agriculture Quarantine Agency)Vice Head of Pest Surveillance and Monitoring Unit, Post- Entry Plant Quarantine (Indonesian Agriculture Quarantine Agency)Vice (Heat of Pest Surveillance and Monitoring Unit, Post- Entry Plant Quarantine Protection Department	Participant 1Participant 2Participant 3Participant 4Image: Participant 3Participant 4Participant 4Participant 4Image: Participant 3Participant 4Participant 4Norhayati binti MadihaNur FitriawatiTran Van ChienCASTILLO ARIENE GARCIAAttachment on Plant VirusesAttachment on Plant VirusesAttachment on Plant ViruseAttachment on LeafminersAttachment on Plant VirusesAttachment on Plant VirusesAttachment on Plant ViruseAttachment on LeafminersMSc (Plant Pathology)MSc (Plant Pathology)Master of Science (MSc)MSc (Plant Pathology)MSc (Plant Pathology)MSc (Plant Pathology)Master of Science (MSc)MSc (Plant Pathology)1. Training on South America Leaf Bight of rubber in Brazil: 13th - 17th November 2017.Training course on information systems for Surveillance and Reporting held in Malaysia (rom Sth - 10th February 2017.NoneMSc (Plant Pathology)None2017.NoneImage: Participant 2Image: Participant 3NoneImage: Participant 3Image: Participant 4NoneImage: Participant 4Image: Participant 4NoneImage: Participant 4Image: Participant 4NoneImage: Participant 5Image: Participant 4NoneImage: Participant 4Image: Participant 4NoneImage: Participant 4Image: Participant	Participant 1Participant 2Participant 3Participant 4Participant 5Image: 1Image:

9.What is your current job description:	 Planning, preparing and implementing the detection of plant viruses and other plant pathogens and provide control recommendations for the farmers. Preparing and evaluating the laboratory protocol on detection and identification of plant pathogens using ELISA and PCR. Providing technical support in terms of identification of plant pathogens for surveillance and research program. Providing training to officers, ground staffs and farmers on plant disease diagnostic, detection and identification of pathogens. Preparing pest list of agriculture crops for exportation and importation purposes. 	I am supervisor and have job description to monitor testing process by analyst, give problem solving during test and make planning for further project of virology laboratory		Plant Nematologist	Taxonomic study of leafminers, fruit flies, stingless bees and fireflies.	Diagnostic of insect pest and expert services Develop training for technical officer from various states region in Department of Agriculture
10. Is your current job related to your attachment program?	Yes	Yes, my work related with attachment program	Yes, certainly. Due to the attachment programme, I have already learnt a lot of valuable knowledge and laboratory skill pertaining to detection and identification of plant viruses. I have been utilizing successfully and effectively what I obtained in such programme into my current working responsibility. Moreover, I also imparted such useful and dispensable knowledge to other technical staffs who belong to PPD.	Yes, as our laboratory provide diagnostic support in entomology and nematology for export certification and plant health surveillance programmes for Singapore.	YES	YES

11. What projects are you currently working on? E.g. identification of Begomovirus, pest and diseases survey in agricultural crops; stored product insect pests; plant parasitic nematodes, etc.	 Cucurbit viruses – Status and detection of cucurbit viruses on cucurbit plants in Peninsular Malaysia (Cucumber mosaic virus (CMV), Squash mosaic virus (SqMV), Zucchini mosaic virus (ZYMV), Watermelon mosaic virus – 2 (WMV-2), Tobacco ringspot virus (TRSV) and Potyviruses. PCR optimization on detection and identification of jackfruit rust pathogens (Pantoea agglomerans and Pantoea stewatii). PCR optimization on detection and identification of Bacterial Panicle Blight on rice (Burkholderia glumae). Detection and identification of American Foulbrood and European Foulbrood in bee. 	- I am involved in the project of quarantine pest verification (<i>Squash mosaic virus</i> (SqMV) and <i>Cucumber green mottle mosaic virus</i> in Yogyakarta Special Region.	 Carrying out the surveillance and monitoring activities for pests and diseases associated with imported plant materials grown in greenhouses or isolated fields; Identifying the pests and diseases from samples collected from above mentioned locations; Assessing the pest risk analysis (PRA) on imported plant products and plant materials. 	Survey and identification of plant parasitic nematodes and IPM of leafminers on vegetables.	DNA barcode of fruit flies and leafminers, Taxonomic study of fruit flies and leafminer in vegetable crops.	Identification and surveillance pest of concern Chrysomphalus aonidum, C. dictyospermi and Chaetanaphothrips orchidii on ornamental crops in Cameron Highland; Diagnostic of insect pest; Mass rearing biological control agent Asecodes hispinarum
12. Have you collected P&D specimens from the field related to your attachment?	Yes. Samples for my research on status and detection of cucurbit viruses in Peninsular Malaysia	Yes, we always involved in annual monitoring project for new report of quarantine pest or collecting sample for collection purposes	Yes. I have already collected the virus- suspected passionfruit samples in several provinces in Vietnam viz., Nghe An, Dak Lak, Gia Lai, Lam Dong. Using PCR method, I successfully identified the plant viruse causing the epidemic on passion fruit crop in above stated provinces is East Asia passiflora virus	YES	I have collected leafminer from many parts of Thailand.	YES
13. Have you received specimens from other institutions/stations in the country for identification?	Yes. Commonly my laboratory receive samples from other agriculture offices from states of Malaysia.	Yes, because I am work at center laboratory of Indonesian agricultural agency. We serve reference and confirmation test from more than 50 unit of quarantine office in every region of Indonesia.	Yes. I received the passionfruit samples from Plant Protection Sub- Department of Nghe An, Dak Lak, Gia Lai and Lam Dong province. All the samples were determined the causative agent inducing serious epidemics on passion fruit crop.	YES, the specimens are part of the routine test for local and post entry surveillance samples.	I have received specimens from plant quarantine, plant standard and certification office and Institute of Agronomy and Plant renewable energy.	YES

14. Can you identify these up to species level?	No. Some of the samples only identified up to genus level.	I cannot, because my concern work is detection plant viruses using serology method. The ability to identify pest is depends on availability of antisera kit. For work to molecular I have to occupy certain position that I should reach at least next 1-2 years.	Yes. Using PCR, I can identify the causative agent up to species level	No	Yes I can.	YES
15. If you cannot identify, who would be identifying these up to species level?	My laboratory only have a capacity to identify plant viruses through serological test (ELISA). We don't have enough equipment to identify using molecular technique (rRNA identification). Therefore, this is become a constraint for us to identify up to species level.	If I cannot identify the specimen up to species level, I will give it to my senior who have concern work on molecular laboratory.	Not relevant	Immature and damaged specimens if cannot be identified by morphological methods are done by molecular methods.	Not relevant	YES
16. How many species and specimens you have collected and received from others?	100 – 150 samples for routine work and 200 – 250 samples for research samples.	Confirmation sample that we received from other office is about 15 sample/month (average)	Up to present, I only identify the virus species "East Asia passiflora virus" inducing mosaic disease in passion fruit crop in Vietnam.	At least 6 specimens of (Liriomyza-4, Phyllanorycter-2) collected and identified to species level	11 specimens (4 species)	None
17. Have you organized any training related to your attachment program?	YES	No, only local training in my office	I already organized the training for all technical officers working in my office (Post-Entry Plant Quarantine Center No. 1)	No formal training was conducted as staff was given hands-on demonstration only	I have organized two trainings.	YES
18. If YES, when and how many participants attended the training?	35 participants	The participant is my office mate, about 15 person	There were 5 technical officers who attended in such training	None	6-10 March 2017 (20 participants) 23-27 April 2018 (8 participants)	23-27 Oct 2017 with almost 30 participants had attended for this training course
19. From which institutions are these participants from?	Department of Agriculture from Peninsular Malaysia	From the same office with me.	Post-Entry Plant Quarantine Center No. 1	Not Available	Plant quarantine, plant standard and certification office and Institute of Agronomy and Plant renewable (Department of Agriculture, Thailand) and Plant Quarantine Section, Plant Protection Division (Department of Agriculture, Myanmar)	Technical officer from various states region in Department of Agriculture

20. Do you use materials from the attachment to give lectures in the training?	Yes. The participants were provided with the lecture notes and laboratory protocol taken from the previous training attachment.	We have annual training program for candidate quarantine officers (junior quarantine officer) followed by at least 30-60 participant from all quarantine unit region in Indonesia. My senior give lecture and I am entrusted to be assistant during training in 3 years later	Yes, I utilized the documents which I received from lecturers, who trained and instructed me in programme	Not available	Some parts.	YES
21. Have you given seminars related to your attachment in your office/outside office?	Νο	Yes, we have seminar report related with attachment program	I already gave the seminar regarding fundamental principles and utilization of ELISA and PCR in detecting and identifying plant viruses to technical officers in my working place	No formal seminar was conducted as staff was given hands-on demonstration only	I have given seminars related to the attachment in your office and outside office (Kasetsart University).	Technical Seminar organized by the DoA and Knowledge sharing session organized by Plant Biosecurity Division, 2018
22. When and where? How many participants attended the seminar? Time: Place: No. participants:	None	Time: 18 April 2016 Place: IPB International Convention Center, Bogor No. Participant: around 100 participants	Time: June 2016 Place: Post-Entry Plant Quarantine Center Number of participants: 05	Not available	15 May 2017 (40 participants) Plant Protection Research and Development Office, Department of Agriculture and 22 April 2018 (80 participants) Kasetsart University, Faculty of Agriculture at Kanpaueng Saen, Nakhopathom Province.	None
23. What P&D-related projects do you expect to participate in during the next two years?	 Research on Begomovirus status on Fabaceae in Malaysia – currently we are receive many samples from the farmers regarding to virus diseases on beans. Rice diseases such as Bacterial Panicle Blight (new emerging disease in Malaysia – the bacterial pathogen attacking most rice varieties in Malaysia). 	Regarding to report project in 2016 we found inconsistent result for detect SqMV using direct and indirect ELISA, so I expect to work on it. But the project we are work on is depends on demands and requirement of my institution	LAMP (Loop isothermal mediated amplification) is a rapid, sensitive, specific and cost-effective method for detection and identification of plant viruses. However, this method is now unfamiliar to disease diagnostic officers in Vietnam in particular and Southeast Asia region in general. Consequently, I hope a project related to this kind of content can be organized in near future.	Survey, molecular and morphological identification of plant parasitic nematodes and IPM on leafminers on vegetables.	Leafminer, fruit flies and long-legged flies (Dolichopodidae)	Diagnostic of Aphids species

			Personally speaking, I			
			think that virology is a			
			such quite strange field to			
			technical officers in			
			Vietnam. In many case, in			
			order to identify plant			
			viruses up to species			
			level, we need to use			
			integration of several			
			diagnostic methods such			
			FLISA, PCR and DNA			
		- So many problem that we face	sequencing. Therefore			
	There are several problems that I	to be solved during testing and	long-term and specific			
	have to encountered during the	other activity in laboratory but we	projects on plant viruses		For dipterous leafminer I	
	research:	often find constrained by the	(fundamentals.	My work currently focusses	have conducted the	
	Budget constraint – Currently, we	availability of testing material (kit	classification.	on developing diagnostic	project and already got	
	are using ELISA test kit supplied	testing/ other material) so our	transmission and	capability in the	funding for 3 three.	
	from oversea. The price is quite	work result sometimes is not ideal	identification) will be play	identification of plant	However, for	
24. If you are currently still in the same field	expensive and we have problem to	as we expected	an important role in	parasitic nematodes	lepidopterous leafminer l	
as during the attachment what are the	buy enough amount of the kits to run	- We also have funding problem	widening strengthening	(PPN) survey of PPN and	could not get any funning	
problems that you have encountered in term	the tests as we need to share the	to held internal training to increase	and stabilizing a virus	the IPM of leafminers on	because they are not	
of funding, facilities, your time, etc.	vearly budget (allocated budget for	our competency, while we always	diagnostic proficiency of	local vegetables. The rest	importance pest in	
Please explain.	consumables and chemicals) with	required to be expert and teach	technical officers and	of the time is mostly doing	Thailand. It is very to	Securing funding and
	other laboratories	our junior guarantine officer	plant quarantine officers in	laboratory administration	conduct the research in	time to run the project
			ASEAN region.	and management	Thailand.	that has been planned
		related with attachment program	Ŭ	5		·
		Such as.				
		- Developing method of detection				
		Squash mosaic virus (Squiv) on				
		several cucurbits confinencial				
		DCP (2016)				
		Interlaboratory testing				
		- Internationation y testing				
		RPMV from covboon cood using				
		Validation mothod of Alfalfa				
		mospic virus (AMV) on soveral				
		seeds of soubean, chilli and				
		cucurbits using ELISA (2017)				
		- Interlaboratory testing				
		comparison: Testing detection of				
		AMV detection from soupean			For dinterous leafminor L	
		seed using ELISA (2018)			have conducted the	
		- Quarantine pest verification :			Inroject and already dot	
		CGMMV and SaMV monitoring in			funding for 3 three	
		Yoqvakarta			However for	
		But that's all work is not			lenidonterous leafminer l	
25. Do you have any publication(s)/ papers		nublished I only send 2 report			could not get any funning	
that are related with your attachment		that I was leader team for other			because they are not	
program? If YES, can you please		work I need permission from other		Draft SOP on leafminers	importance nest in	
submit/attach this together with the		member	2. On what subject was	Identification and rearing of	Thailand It is very to	
completed form?		For 2018 project (Interlaboratory	vour attachment	narasitoids still nending as	conduct the research in	
	None	testing comparison AMV I am also	program and when?	project is still on-doind	Thailand.	None

		related with attachment program		
		such as:		
		- Developing method of detection		
		Squash mosaic virus (SqMV) on		
		soveral queurbits commercial		
		Seeds by DIBA, ELISA, and RT-		
		PCR (2016)		
		 Interlaboratory testing 		
		comparison: Testing detection of		
		BPMV from sovbean seed using		
		- Validation method of Alfalfa		
		mosaic virus (AMV) on several		
		seeds of soybean, chilli and		
		cucurbits using ELISA (2017)		
		- Interlaboratory testing		
		comparison: Testing detection of		
		AIVIV detection from soybean		
		seed using ELISA (2018)		
		- Quarantine pest verification :		
		CGMMV and SqMV monitoring in		
		Yoqvakarta		
		But that's all work is not		
		but that S all work is not		
25. Do you have any nublication(a)/ nonare		published. Tonly send 2 report		
25. Do you have any publication(s)/ papers		that I was leader team, for other		
that are related with your attachment		work I need permission from other		
program? If YES, can you please		member.	Up to present, I have not	
submit/attach this together with the		For 2018 project (Interlaboratory	published any academic	
completed form?	None	testing comparison AMV I am also	paper.	
•				
			Currently I am doing MS	
			Currently I am doing MS program at Kyushu	
			Currently I am doing MS program at Kyushu University, Japan with	
			Currently I am doing MS program at Kyushu University, Japan with Prof. Takasu as mv	
			Currently I am doing MS program at Kyushu University, Japan with Prof. Takasu as my supervison However I	
			Currently I am doing MS program at Kyushu University, Japan with Prof. Takasu as my supervison. However, I	
			Currently I am doing MS program at Kyushu University, Japan with Prof. Takasu as my supervison. However, I am working with Prof.	
			Currently I am doing MS program at Kyushu University, Japan with Prof. Takasu as my supervison. However, I am working with Prof. Ugaki sensei (the	
			Currently I am doing MS program at Kyushu University, Japan with Prof. Takasu as my supervison. However, I am working with Prof. Ugaki sensei (the University of Tokyo) and	
			Currently I am doing MS program at Kyushu University, Japan with Prof. Takasu as my supervison. However, I am working with Prof. Ugaki sensei (the University of Tokyo) and Prof. Natsuaki sensei	
			Currently I am doing MS program at Kyushu University, Japan with Prof. Takasu as my supervison. However, I am working with Prof. Ugaki sensei (the University of Tokyo) and Prof. Natsuaki sensei (TUA). My major is still	
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26. Do you have any other relevant			Currently I am doing MS program at Kyushu University, Japan with Prof. Takasu as my supervison. However, I am working with Prof. Ugaki sensei (the University of Tokyo) and Prof. Natsuaki sensei (TUA). My major is still virology and my master thesis relates to cassava mosaic disease induced by Sri Lanka cassava mosaic virus (Begomovirus). I am involved in the project "Development and Dissemination of sustainable production system based on invasive pest management of Cassava in Vietnam,	
26. Do you have any other relevant information related to your attachment that			Currently I am doing MS program at Kyushu University, Japan with Prof. Takasu as my supervison. However, I am working with Prof. Ugaki sensei (the University of Tokyo) and Prof. Natsuaki sensei (TUA). My major is still virology and my master thesis relates to cassava mosaic disease induced by Sri Lanka cassava mosaic virus (Begomovirus). I am involved in the project "Development and Dissemination of sustainable production system based on invasive pest management of Cassava in Vietnam, Cambodia and Thailand".	
26. Do you have any other relevant information related to your attachment that you would like to share?			Currently I am doing MS program at Kyushu University, Japan with Prof. Takasu as my supervison. However, I am working with Prof. Ugaki sensei (the University of Tokyo) and Prof. Natsuaki sensei (TUA). My major is still virology and my master thesis relates to cassava mosaic disease induced by Sri Lanka cassava mosaic virus (Begomovirus). I am involved in the project "Development and Dissemination of sustainable production system based on invasive pest management of Cassava in Vietnam, Cambodia and Thailand". This project is supported	

l don't have anv	
nublication that any	
publication that are	
related with the	
related with the	None

REPORT ON POST-ATTACHMENT SURVEYS

The first two years of the project "Taxonomic capacity building to support market access for agricultural trade in the ASEAN region (AGF/CRO/11/007/REG) funded by the Japan ASEAN Integration Fund (JAIF), has drawn positive response from all AMS. In this first phase, three main training activities have been successfully organized to build taxonomic capacity of AMS personnel. Topics for these training events were chosen based on the consensus of the Project Steering Committee; the training events typically consisted of hands-on training in the form of a two-week workshop with participants drawn from AMS. The main objective of this activity is to achieve diagnostic capacity at least at generalist level for the pest taxonomic group targeted. The three training topics organized were:1) Diagnostics of plant viruses, 2) Identification of leafminers of agricultural importance, and 3) Identification of weevils of quarantine importance.

One defining feature of the Project is the provision for an attachment program for three trainees from each of the taxonomic capacity building workshops, who have shown most promise as identified by the respective resource persons. The objective is to reinforce the sustainability of the diagnostic and taxonomic training in these key pests of the region, so that trained expertise is maintained in ASEAN Member States beyond the duration of this Project.

Within Phase 1 of the Project, two attachment programs were completed, one on plant viruses and the other on leafminer pests. Three participants each were selected from amongst the respective training workshop participants, five spent their attachment stint at laboratories in Japan, the sixth spent time working on natural enemies of leafminer pests in a laboratory in Indonesia.

The different educational levels of the chosen candidates for the attachment programs attest to the selection process based on the performance of these individuals during the training workshop. The survey revealed that:

- All six participants are currently still working in the same field and involved in implementing projects in the same field of training,
- Three participants indicated they can identify sample specimens to species level, others use molecular techniques or submit them to other scientists for identification,
- All participants except one have since received sample specimens from other divisions of their own institutes and also from other institutions for diagnosis,
- All participants have given or organized training, formal or informally, in their section or department or in public,
- Four participants indicated they were using materials from the attachment program to teach in the training,
- All participants indicated they will continue to be involved in projects of the same technical area in the next 2 years,
- Some constraints are faced by participants in their annual budget allocations from their department to support their research & development plans,

- In the short period following their attachment, one participant has written several papers related to the attachment and research for publication,
- One participant is currently doing a MSc course in Kyushu University. His research is related to Sri Lanka cassava mosaic virus, working together with Prof. Natsuaki of Nodai, his supervisor during the attachment program, under the regional project on "Development and Dissemination of sustainable production system based on invasive pest management of Cassava in Vietnam, Cambodia and Thailand" funded by JICA and JST, Japan.

While the time lapsed between attachment events and this survey is not long, results indicate that the intended sustainability through an attachment program reinforcing the training workshop has been useful. It must be appreciated that the training workshops are intended to cater for a larger number of participants given the scale of training needs amongst AMS, the Project has limited provisions for more advance (and sustainable) training through the format of attachment programs.



ASEAN Cooperation Project Proposal

For assistance on how to complete this template, you can refer to the see the "Handbook on Proposal Development for ASEAN Cooperation Projects" which can be downloaded at <u>http://asean.org/resource/asean-project-templates/</u>

1. **PROJECT DETAILS**

Project Identification Code:

(to be completed by the ASEAN Secretariat)

Project Title:

Taxonomic capacity building to support market access for agricultural trade in the ASEAN region – Phase 2

Brief Project Description – 300 words max:

A first two-year project "Taxonomic capacity building to support market access for agricultural trade in the ASEAN region (AGF/CRO/11/007/REG) funded by the Japan-ASEAN Integration Fund (JAIF), has drawn positive response from all AMS. At the recently-concluded 18th Meeting of ASEAN Expert Working Group on Harmonisation of Phytosanitary Measures (EWG-PS) held in Vientiane, Laos, in 2016, Member States endorsed a proposal to request a second phase to the Project, so that the positive outcomes from the first project can be built upon to realize safer and smoother trade within ASEAN and between ASEAN and its major trading partners.

The Phase 2 project aims to increase the capacity of ASEAN plant health officers in diagnostic skills for accurate and timely diagnosis and identification of pests and diseases which underpins the development and maintenance of robust pest lists, and to provide key skills needed in monitoring and surveillance, and border inspection systems.

The one-year project is composed of 2 (two) training workshops and 1 (one) attachment program in Japan:

- 1. Training workshop on diagnostics of plant parasitic nematodes (in Indonesia)
- 2. Training workshop on diagnostics of begomovirus and the use of LAMP kit (in the Philippines)
- 3. Attachment program on diagnostics of plant parasitic nematodes (in Japan)

Recurring Project: Yes 🗌 No 🖂					
Project Cl Scope:	assification: Single Sector ⊠	Cross-Sector]		
Pillar:	(Main) Bluepri Economic Comm	nt: ASEAN nunity Blueprint	Connectivity 🗌 Linkage:		
	(Main) Charac Enhancing partic value chains	teristic: A.6 ipation in global	Strategy: Key Action(s):		
	Action Line(s) Action(s):	: ii and iii			

Information below to be completed by the ASEAN Secretariat:			
Nature of Confidence Building			
Coopera- Harmonisation			
tion: Special Assistance 🗌			
Joint Effort			
Regional Integration / Expansion 🗌			
Type of Policy Initiative			
Interven- Establishment of Institutional Mechanisms			
tion: Human Capacity Building			
Project Duration: < 6 months \Box 6-12 months \boxtimes > 12 months \Box			
Proposed Commencement Date:			
Proposed Completion Date:			
Project is considered to have "commenced" as of the date the Implementing Agency/Proponent is informed of the approval and upon receipt of the first disbursement, whichever is later.			
Project is considered "completed" when the Project Completion report and unspent balance, if any, is			
received and verified by the ASEAN Secretariat. The proponent is required to submit the project completion report, which comprise of narrative and financial report, within 60 days after the project is fully implemented.			
The report templates are available at <u>http://asean.org/resource/asean-project-templates/</u>			
Participating ASEAN Member States: All X			
Sponsoring ASEAN Body			
Contaral Committee/Main Dedu			
Sectoral Committee/Main Body:			
ASEAN Sectorial Working Group on Crops			
Meeting Number/Date: 21-22 July 2016 (23 rd Meeting)			
Working Group/Sub-Committee:			
ASEAN Expert Working Group on Harmonisation of Phytosanitary Measures			
Meeting Number/date: 18-19 July 2016 (18 th Meeting)			
Proponent's Name and Address:			
ASEAN Plant Health Cooperation Network (APHCN)			
c/o ASEANET, MARDI Complex, P.O. Box 210,			
UPM Post Serdang, 43400 Selangor, Malaysia			
Implementing Agency's Name and Address (if different from above):			
Contact Porson and Contact Dotails:			
Dr. Lum Keng Yeang			
Chairperson, ASEANET, P.O. Box 210			
UPM Post Serdang, 43400 Selangor			
Malaysia			
Date of Proposal Submission: February 2018			
Proposed Funding Source(s):			
Japan-ASEAN Integration Fund (JAIF)			
Proposed Project Budget (total in USD): USD 379.163.00			

Information below to be completed by the PCPMD of the ASEAN Secretariat		
Recommendation of the ASEAN Secreta Meeting No./Date : / Action : Dendorsed	Iriat	
Approval of Committee of Permanent Representatives to ASEAN (CPR) Meeting No./Date : / Action : Endorsed Not Endorsed		

PROJECT JUSTIFICATION, REGIONALITY AND BENEFICIARIES – 600 words max (a) Current Problem

ASEAN Member States (AMS) have long recognized the need to develop and strengthen capacities in taxonomic knowledge to identify and manage quarantine risks associated with agricultural commodities and to accurately diagnose pests and diseases. A sustained program of taxonomic capacity development would greatly help ASEAN's drive towards improved knowledge and skills in market access activities with its major trading partners. It is for this reason that the ASEAN Regional Diagnostic Network (ARDN) Strategic Plan (Annex 3.1.), a project initiative from the 2009 Planning Meeting of ARDN held in Vientiane, Lao PDR, organized by ASEANET in collaboration with and supported by NZAID-Plant Health and AusAID SPS Capacity Building Programs, was launched. The concept of an ARDN has been endorsed repeatedly by the Expert Working Group on the Harmonisation of Phytosanitary Measures (EWG-PS) and the ASEAN Sectoral Working Group on Crops (first in Bali, Indonesia in 2005, then in Langkawi, Malaysia in 2007, and in Nay Pyi Daw, Myanmar in 2008). These meetings recommended pilot activities, in particular the development of a list of regional resources (expertise and laboratories) and taxonomic capacity building on several major invasive pest & diseases.

(b) Regionality

The inadequacy of taxonomic capacity is a widespread problem among AMS, and this has serious implications in trade facilitation not only among AMS, but also between ASEAN and its major trading partners. The concept of sharing in skills development with respect to the diagnosis and taxonomy of pests and diseases is central to the concept of the ARDN. The objectives of this project underpin the way forward for AMS to raise their capacity and share resources to support sustainable market access and regional biosecurity.

(c) Project History

A first two-year project "Taxonomic capacity building to support market access for agricultural trade in the ASEAN region (AGF/CRO/11/007/REG) funded by the Japan-ASEAN Integration Fund (JAIF), has drawn positive response from all AMS. In this first phase, three main training activities have been successfully organized to build taxonomic capacity of AMS personnel. Topics for these training events were chosen based on the consensus of the Project Steering Committee; the training events typically consisted of hands-on training in the form of a two-week workshop with participants drawn from AMS. The main objective of this activity is to achieve diagnostic capacity at least at generalist level for the pest taxonomic group targeted. From this training event, three participants who have demonstrated promise at the workshop were selected for a two-month attachment at the laboratories of the designated resource persons/experts for advanced/specialist

training. The three training topics organised were:1) Diagnostics of plant viruses, 2) Identification of leafminers of agricultural importance, and 3) Identification of weevils of quarantine importance. Most of the AMS participated in all the training activities under Phase 1 Project (see Annex 3.2), with only one participant from Laos participated in the 2 training activities.

The structure of the activities in this Phase has resulted in a significant number of AMS plant health officers building essential taxonomic and diagnostic capacity in key regional pests, backed up by selected individuals with more advanced training in these key pests via attachment programs. These individuals will serve as key reference to ASEAN for the identification of these pests and will be drawn upon as trainers in future training. A survey of these individuals following completion of their attachment programs have positive indications that, together with the availability of reference materials received during training, they are well placed to help address any remaining gaps in the key pests for which training have been the focus of this Phase. Key pests identified as gaps for Phase 2 (plant parasitic nematodes and plant Begomoviruses) have been selected on a priority basis from lists of important pests that remain to be addressed as nominated by AMS plant health management. Format for capacity building activities will follow that in Phase 1.

(d) Beneficiaries

The direct beneficiaries of the project will be the plant health personnel of AMS who support key food security and market access-related activities. These include plant quarantine, monitoring and inspection, pest surveillance and pest list development, measuring 40 participants to the training workshops and 3 participants for the more in-depth attachment programs. Indirectly, the confidence built as a result of the hands-on training and exposure to more advanced plant health systems through attachments and visits will benefit existing national systems within the AMS and encourage a cascading effect within national systems in improving capacity and efficiency in related support services.

The extension of a Phase 2 to the project will provide the opportunity to not only extend capacity development into other pests and diseases of economic importance to AMS, but also the useful time frame to monitor and encourage the graduates of training workshops and attachment programs to continue to apply their knowledge gained to their daily responsibilities as well as pass on to relevant colleagues at home. M&E activities will include attempts to measure the sustainability of Phase 1 activities in building the required capacity in ASEAN.

In the development of project activities, extensive consultation has been made with complementary diagnostic capacity building programs, particularly the ASEAN Australia New Zealand Free Trade Agreement (AANZFTA) Economic Cooperation Work Program. Both the JAIF and AANZFTA Programs directly contribute towards the ASEAN Regional Diagnostic (ARDN) Strategic Plan, and Strategic Thrust 2: Enhance Trade Facilitation, Economic Integration and market Access (AP2.3 Streamline and improve quarantine systems & procedures and harmonize standards and regulations 2.3.4. Enhance ASEAN Regional Diagnostic capacity and capability) of the Strategic Plan of Action for ASEAN Cooperation on Crops (2016-2020).

Results	Indicators (to measure the project's achievements)	Means of Verification How will information be collected to support these
	How will the project's achievement be measured? Please indicate feasible quantitative or qualitative factor.	indicators?
Objective/ Outcome: To increase the capacity timely diagnosis and ide and maintenance of robu surveillance, and border	of ASEAN plant health officers in diag ntification of pests and diseases which ust pest lists, and to provide key skills inspection systems.	nostic skills for accurate a underpins the developmene needed in monitoring and
Results / Output 1:		1.1 Pre and post test
Training Workshop on Diagnostics of Pest Nematodes (12 days in Indonesia)	1.1 Increased knowledge of at least 20 plant health officers from the ASEAN member states trained in diagnostics of pest	1.2. 5-10 new plant parasitic nematodes identified and collected
1.1 AMS enhanced capa on diagnostics of Pest Nematodes	acity nematodes (Annex 3.18Selection Criteria)	parasitic nematodes deposited
1.2 Improved collection a identification of more pla parasitic nematodes in different crops	and 1.2 5-10 new plant parasitic nematodes are identified and collected	materials and presentations uploaded website
1.3 Increased speciment parasitic nematodes to b deposited in the national reference collection of po and diseases	 1.3 20-30 specimens of parasitic nematodes to be deposited in the national reference collection of pests and diseases 	1.5. Submission of Training Report to ASE and EWGPS
1.4 Availability of Trainin materials and presentati AMS reference	g 1.4 Training materials and presentations are prepared and uploaded on ARDN website	
report	ng 1.5 Training report published	
Main Activities:		
1. To organize a trainin collaboration with IA from Japan.	g workshop on Diagnostics of Pest Ne QA and Bogor Agriculture University w	ematodes in Indonesia in /ith main resource person
2. To collect and identi	y more plant parasitic nematodes in d	ifferent crops
 To deposit more spe of pests and disease 	cimens of parasitic nematodes in the s	national reference collectio
4. To prepare and uplo	ad training materials, presentations ar	nd report on the website
Results / Output 2:		

Training Workshop on Diagnostics of Begomoviruses			
 and the use of LAMP-PCR (12 days in Los Banos, Philippines + 2 days travelling) 2.1. AMS enhanced capacity on diagnostics of Begomovirus and the use of LAMP-PCR. 	2.1 Increased knowledge of at least 20 plant health officers from the ASEAN member states trained in diagnostics of Begomoviruses	2.1. More than 60% of the participants will get post test result of >70 score/ point (Annex 3.193.21.)	
2.2. Improved knowledge in Begomoviruses transmission and its associated insect vectors	2.3. 5-10 economic crops invested by Begomovirus identified and collected	2.2. 5-10 Begomovirus infected crops identified and collected.2.3. 10-20 Begomovirus specimen collected and	
2.3. Acquired basic information on the symptoms of Begomovirus infected crops, and on the molecular characteristics of Begomovirus	2.4. 3-5 genus/species under family of Gemini-viruses specimens to be deposited in the national reference collection of pests and diseases	isolated from different crops deposited.2.4. 10-15 of training materials and presentations uploaded on website	
2.4. Availability of Training materials and presentations for AMS reference	2.5 Training materials and presentations are prepared and uploaded on ARDN website	2.5. Submission of Training Report to ASEC and EWGPS	
2.5 Submission of Training report	2.6. Training report published		
 Main Activities: 1. To organize a training works the Philippines in collaboration resource person from Japan. 2. More Begomovirus will be identified 3. To deposit more specimens of and diseases 4. To prepare and upload training 	shop on Diagnostics of Begomo on with Instittue of Plant Breedin entified by plant health officers o of Begomovirus in the national r ng materials, presentations and	viruses and Lamp PCR in ig, UPLB with main of ASEAN eference collection of pests report on the website	
Results / Output 3: Attachment program in Japan on Diagnostics of Plant Parasitic Nematodes	3.1 Advanced skill of at least3 plant health officers fromthe ASEAN member stateson pest nematodes3.2. One attachment reportprepared.	3.1. Attachment report from 3 participants.3.2. Report from the supervisors	
 Main Activities: 1. To organize an attachment p months on Diagnostics of Pe University. 	rogram for at least 3 plant healt st Nematodes in Japan in collat	h officers from ASEAN for 2 poration with a Japanese	
 To conduct more surveys on To collect and identify more presented in the surveys of t	 To conduct more surveys on the parasitic nematodes of different crops. To collect and identify more plant parasitic nematodes in different 		

re specimens of	parasitic nematodes in the	national reference collection
iseases		
d upload training	materials, presentations ar	nd report on the website
4.1 4.2 4.3	 JAIF Project website up-to-date with all training materials and reports uploaded Promotional materials will be developed for distribution Workshop reports would be published 	4.1.JAIF Project website up- to-date4.2. Promotional materials available.4.3. Workshop reports printed
F Project website	e regularly,	
d print promotion	al materials specific for Pha	ase 2 Project
u print training v		
i: ntation of ent, aluation	Good implementation planning of each activity Effective monitoring throughout the project implementation Evaluation Report is crafted	• Suggestions and recommendations are provided by PSC (and communicated) to ensure all programme will reach their objectives and mitigate risks are timely identified
 Main Activities: 1. To monitor the implementation of project activities in Bogor, Los Banos and Kyoto and prepare the Progress Reports 2. PSC to conduct intersession communication, whenever necessary to monitor the project progress 3. To hold Steering Committee Meeting to evaluate the implementation of the project and to give recommendation for future activities 4. All results of Planning, Monitoring and Evaluation exercises are to be communicated/copied to ASEAN Secretariat 		
EMENT ARRAN	GEMENTS – 600 words	max
rangements 1 of the Pr rom key AMS escribed in Anr e project, i.e. at Project also re Secretariat. Pr , especially or and coordination	roject, a Project Steer will oversee the project nex 3.3. One project ste the end of the project be ports to the larger AMS v roject monitoring and coo n the Training Worksho on with counterpart institu-	ring Committee comprising t. Selection criteria for this ering committee meeting will efore the Final Project Report via the ASWGC and EWGPS rdination will be implemented ops in the form of logistic utions of the different member
	Iseases d upload training d upload training 4.1 n 4.2 4.3 F Project website d print promotion d print Training V 5: ntation of ent, aluation •	Iseases d upload training materials, presentations ar k: 4.1. JAIF Project website up-to-date with all training materials and reports uploaded h 4.2. Promotional materials will be developed for distribution 4.3. Workshop reports would be published F Project website regularly, d print promotional materials specific for Phate d print Training Workshop reports 6: • Good implementation planning of each activity 6: • Effective monitoring throughout the project implementation aluation • Evaluation Report is crafted br the implementation of project activities in E re the Progress Reports onduct intersession communication, whenever ogress teering Committee Meeting to evaluate the in e recommendation for future activities its of Planning, Monitoring and Evalua cated/copied to ASEAN Secretariat EMENT ARRANGEMENTS – 600 words rangements 1 of the Project, a Project Steer rom key AMS will oversee the project steer e project, i.e. at the end of the project steer project also reports to the larger AMS vi Secretariat. Project monitoring and coor , especially on the Training Workshop e and coordination with counterpart institu- during project implementation.

One progress report would be prepared within the duration of the project, with one Project Completion Report to be prepared and submitted to JAIF no later than 60 days of the project completion date.

[Disbursement arrangements and responsibilities for reporting and refund] ASEAN Plant Health Cooperation Network (APHCN) as the proponent is the sole recipient of the approved budget and takes full responsibility of the utilization of the fund, and will manage it professionally to ensure accountability.

The fund recipient will follow accurately the details of approved project proposal including the budget breakdown and understand cross-subsidy between different budget items is not acceptable for JAIF-supported project. In case there are needs of any deviations from the approved details and/or necessity for usage of the contingency, the proponent will seek prior approval from the relevant party.

To clarify the reporting requirements of the proponent entrusted to utilize the fund from JAIF, a "Disbursement Letter" will be issued and signed by ASEC and shall be counter-signed by the proponent.

The proponent shall note that the approved fund will be disbursed in tranches according to ASEC's new Standard Operating Procedure (SOP) on Project Financial Disbursement and Reporting (PFDR), effective from 1 January 2016.

In case the proponent requests for the second fund tranche, the first Tranche Financial Report accompanied by its Summary and supporting documents shall be submitted to ASEC Finance and Budget Division (FBD).

When the proponent submits its reports, original invoices and receipts or certified true copies should accompany the reports.

The proponent will submit Project Completion Report (PCR) and Final Financial Report accompanied by its Summary and supporting documents within 60 days of the project implemented. For projects which spans between two financial years, the proponent will also submit Annual Interim Report and Annual Financial Interim Report including original invoices* and receipts or certified true copies (as of 31 December) within 30 days after end of ASEC fiscal year.

*Remarks: For expenses where invoices can be obtained (e.g. buying supplies from companies), both invoices and receipts should be submitted as the supporting documents of the expenses. For all other expenses, especially cash transactions (e.g. taxi or supermarket purchases), where invoices are not applicable, receipts would be sufficient.

The proponent will refund unspent balance together with interest earned from the project fund, if any, to the JAIF account of ASEC within 90 days of the end of the project implementation. Upon receiving financial verification from ASEC FBD, the proponent is required to return the unused balance of the project to the JAIF account within the said time.

[Visibility]

As this project will be supported funded by the Government of Japan through JAIF, it is expected to follow the Guide on Visibility for JAIF Supported Projects whenever project outcomes, outputs, and activities have communication and visibility aspects.

- b) Human Resource Inputs Human resource inputs will largely draw on renowned experts in the relevant field from Japan. Where expedient, regional experts will be engaged to supplement training programs for local knowledge inputs. TORs for international and regional consultants are described in Annex 3.4. & 3.5.
- c) Monitoring and Evaluation Arrangements Monitoring and evaluation will include: a) pre- and post-training evaluations of participants, b) progress reports from attachment programs candidates, and c) comprehensive workshop completion reports. The M&E report(s) will be submitted to PSC members and also ASEAN WG on PS through the ASEAN Secretariat (please see Annex 3.6.).

5. **PROJECT SUSTAINABILITY – 300 words max**

This project has been endorsed by all ASEAN Member States at the last meeting of the ASEAN Sectoral Working Group on Crops (ASWGC) in 2017. The Project complements other plant health capacity building projects under the ASEAN Plant Health Cooperation Network (APHCN) and the ASEAN Regional Diagnostic Network (ARDN), including the ASEAN Australia New Zealand Free Trade Area Economic Cooperation Work Programme (AANZFTA ECWP).

One of the key features of this project is that activities have been formulated from priorities identified by AMS following a poll of training needs. The system of training workshops supplemented by more in-depth and focussed attachment programs on the priority topics should see considerable experience and expertise being attained by NPPOs. Opportunities for participant organisations to reflect on what they have learned and to plan for follow-up in-country in the future will help to ensure sustainability.

All participating agencies are government departments (NPPOs). All countries are members of ASEAN with reporting obligations to the ASWGC and the Expert Working Group on the Harmonisation of Phytosanitary Measures. All activities have been proposed by countries as meeting national quarantine or market access priorities. Incountry training workshops will be encouraged to generate a cascading effect initiated by successful trainees of the program.

A series of monitoring visits by the Project Management team has been planned to encourage follow-up action by participants who have been trained by the Project to extend their newly acquired knowledge to fellow scientists at home. This commitment will be initiated as part of action discussed with participants during their training stint. (please see Annex 3.6.).

6. GENDER AND OTHER CROSS CUTTING ISSUES – 300 words max

(a) Gender – Gender considerations will be given due attention in the selection process for candidates to participate in the planned workshops and attachment training programs. In post-conflict AMS, it has often been observed that the female gender is often well represented; this and other factors will be taken into account in the selection of participants.

(b) Other Cross Cutting Issues – An increasingly important component of diagnostic taxonomic training is the use of IT in the management of data associated with the development of taxonomic keys, pest lists and other forms of pest descriptions. The incorporation of information technology will be given due emphasis by default in this program.

7. POTENTIAL RISKS – 300 words max

Mitigation strategy
Prior discussions and agreement with host organization and key scientist. Early confirmation of contractual details between host scientists and project management.
Advocate pest diagnostic capacity as integral pillar of national food security as well as market access in national planning
Provide suggestions and recommendations for relevant AMS' stakeholders/agencies (as part of the report) for the perusal of EWGPS after the project completion
Encourage local dissemination of skills acquired following training
Encourage establishment of library of reference resources
Indicate clear criteria for participants to guide their respective agency selecting correct persons and ensure sustainability

Annex 1 – Budget Proposal

Using the budget format provided by ASEC, provide the cost for each of the inputs under the subheadings. Include a budget for project evaluation for projects with budget of more than USD 1 million or more than 1 year duration. For more details on project evaluations, see the "Handbook on Proposal Development for ASEAN Cooperation Projects".

Annex 2 – Indicative Work Plan

Using the work plan format provided by ASEC, develop a work plan with time frame for each main activity. The work plan should cover the whole period of the project.

Annex 3 – Notation on Additional Supporting Documents

Annex 3.1. ASEAN Regional Diagnostic Network

Annex 3.2. ASEAN MS Participation in JAIF Phase 1 Training Workshops

Annex 3.3. TOR for Project Steering Committee Annex 3.4. TOR for International Consultant Annex 3.5. TOR for Regional Consultant Annex 3.6. Project Monitoring and Evaluation Annex 3.7. Tentative Program for Plant Parasitic Nematodes Annex 3.8. Tentative Program for Begomoviruses Annex 3.9. Equipment Required for Training Workshop Annex 3.10. Usage of Communication Fund Annex 3.11. Equipment Required for Attachment Program Annex 3.12. TOR for Technician in the Attachment Program -deleted Annex 3.13. Quotation for Printing Workshop Reports Annex 3.14. Quotation for Printing Leaflet and Flyers Annex 3.15. TOR for Project Manager Annex 3.16. TOR for Project Administrative/Finance Annex 3.17. TOR for Selection of Participants Annex 3.18. Sample of Pre-evaluation Questionnaire (Technical) Annex 3.19. Sample of Post-evaluation Questionnaire (Technical) Annex 3.20. Sample of Post-evaluation Questionnaire (Non-technical) Annex 3.21. Project Completion Report Annex 3.22. JAIF Post-attachment Questionnaire Annex 3.23. List of Steering Committee members (Phase 1 Project) - New Annex 3.24. Results of Post-attachment Survey - New

Annex 4 – Replies to several comments from Japan for Phase 2 Project