

AG: FNPP/GLO/002/NET  
AG:GCP/RAS/191/AUL  
AG:GCP/RAS/209/NOR

## **FAO/GOVERNMENT COOPERATIVE PROGRAMME**



# **THE FAO INTER-COUNTRY PROGRAMME FOR THE DEVELOPMENT AND APPLICATION OF INTEGRATED PEST MANAGEMENT (IPM) IN VEGETABLE GROWING IN SOUTH AND SOUTHEAST ASIA, PHASE II**

## **ASIA AND THE PACIFIC REGION**

### **PROJECT FINDINGS AND RECOMMENDATIONS**

**FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS**

**ROME, 2009**

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Terminal Report

## FAO/GOVERNMENT COOPERATIVE PROGRAMME

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FOR THE DEVELOPMENT AND APPLICATION  
OF INTEGRATED PEST MANAGEMENT (IPM)  
IN VEGETABLE GROWING IN SOUTH AND  
SOUTHEAST ASIA, PHASE II

ASIA AND THE PACIFIC REGION:  
CAMBODIA, CHINA, LAO PEOPLE'S DEMOCRATIC REPUBLIC,  
THAILAND, VIET NAM

PROJECT FINDINGS AND RECOMMENDATIONS

Report prepared for  
the participating governments  
by  
the Food and Agriculture Organization of the United Nations

FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS

Rome, 2009

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## TABLE OF CONTENTS

	<u>Page</u>
LIST OF ABBREVIATIONS	vi
1. INTRODUCTION	1
1.1 Project background	1
1.2 Outline of official arrangements	2
1.3 Objectives of the programme	3
2. RESULTS AND CONCLUSIONS	4
2.1 Member country development policies, needs and priorities	4
2.2 Achievement of programme objectives and outputs	5
2.3 Assessment of effects, impact and sustainability	6
3. RECOMMENDATIONS	7
3.1 Recommendations to member countries	7
3.2 Recommendations for Phase III	8
3.3 Recommendations to donors	8
<u>Appendix 1</u> PROJECT STAFF	9
<u>Appendix 2</u> TRAINING AND WORKSHOPS	18
<u>Appendix 3</u> MAJOR ITEMS OF EQUIPMENT PROVIDED	23
<u>Appendix 4</u> DOCUMENTS PREPARED DURING THE PROJECT	24

## LIST OF ABBREVIATIONS

BPH	-	Brown Plant Hopper
CTA	-	Chief Technical Adviser
DBM	-	Diamond Back Moth
DoA	-	Department of Agriculture
DoAE	-	Department of Agricultural Extension
EIQ	-	Environmental Impact Quotient
FFS	-	Farmer Field School
GAP	-	Good Agricultural Practice
ICP	.	Inter-country Programme
IPM	-	Integrated Pest Management
LOA	-	Letter of Agreement
LPTP	-	<i>Lembaga Pengembangan Teknologi Pedesaan</i>
MARD	-	Ministry of Agriculture and Rural Development
M&E	-	Monitoring and Evaluation
NATESC	-	National Agro-technical Extension and Service Centre
NGO	-	Non-governmental Organization
PDO	-	Programme Development Officer
PNOA	-	Participatory Needs and Opportunity Assessment
PPSD	-	Plant Protection Sub-department
SRI	-	System of Rice Intensification
TOT	-	Training of Trainers

# 1. INTRODUCTION

## 1.1 PROJECT BACKGROUND

Following concerns over the overuse of pesticides in Asian agriculture and the impact of this on local food security, FAO has been assisting member countries to develop robust national Integrated Pest Management (IPM) programmes for almost three decades, starting with a focus on the development and promotion of sustainable rice production and protection during the first two decades. In many ways, most notably in terms of food safety and rural community health, the pesticide problem was more acute with vegetable production than with that of rice. In member countries, insecticides were applied on average twice during the rice season. For some vegetable crops, applications ranged between 20 and 80 during the growing season; this was the case for brinjal in Bangladesh, where, in extreme cases, cocktails of chemicals were applied every other day during the brinjal six-month growing season. These could include banned or restricted insecticides such as endosulfan, chlordane, sodium cyanide, methyl parathion or monocrotophos. In Cambodia and the Lao People's Democratic Republic, no labels were in the Khmer or Lao language. Residues in consumed vegetables, the exposure of farm workers and their families to pesticides, and the impact on non-target organisms raised serious health, food safety and environmental concerns. Pesticide residues also jeopardized international trade in fresh vegetables.

Based on multiple requests from FAO member countries for assistance to develop national vegetable IPM programmes, FAO began, in 1996, the FAO Inter-country Programme (ICP) for the Development and Application of Integrated Pest Management in Vegetable Growing in South and Southeast Asia. During Phase I (1996-2001) of this FAO Regional Programme, farmer education and participatory research activities were carried out to promote and support the development and application of IPM in vegetables by Asian smallholder farmers. The Programme focused on developing the capacity of member governments and non-governmental organizations (NGOs) to implement vegetable IPM training programmes in seven countries (Bangladesh, Cambodia, Indonesia, the Lao People's Democratic Republic, the Philippines, Thailand and Viet Nam) using the Training of Trainers (TOT) and Farmer Field School (FFS) approaches. By the end of 2001, more than 600 trainers and approximately 30 000 farmers had participated in training programmes supported by this Programme. The donors for the first phase of the Programme were the Governments of

the Netherlands (GCP/RAS/160/NET) and Australia (GCP/RAS/168/AUL), providing a total contribution of USD 5 214 162.

## 1.2 OUTLINE OF OFFICIAL ARRANGEMENTS

Building on the experiences of the successful first phase, FAO, on request from member governments, formulated a second phase of the FAO Regional Vegetable IPM Programme. This Phase II Programme, implemented from 2002 to 2008, was supported by several donors. With funding provided under an Addendum to the FAO-Netherlands Partnership Programme (project FNPP/GLO/002/NET), the Government of the Netherlands made available USD 1 400 000 for the period 2002-2003. The Government of Australia supported the Programme with USD 1 856 712 under project GCP/RAS/191/AUL, from July 2003 to December 2006.

Project GCP/RAS/209/NOR, “The FAO Inter-country Programme for the Development and Application of Integrated Pest Management (IPM) in Vegetable Growing in South and Southeast Asia, Phase II”, was approved in April 2005. The project had a scheduled duration of three years and a budget of USD 4 269 000, provided by the Government of Norway. In March 2007, an addendum to the Project Agreement was signed by FAO and the Government of Norway for an additional grant, bringing the total budget to USD 5 462 541. Project activities began in January 2005 and, following an extension, ended in December 2008.

The Phase II Programme provided advice, organized training, funded field studies and other post-FFS learning activities, and facilitated the exchange of expertise among stakeholders in the participating member countries. Bangladesh, Indonesia and the Philippines remained member countries of the Programme and FAO continued to support limited activities in most of the original member countries. However, Phase II emphasized vegetable IPM farmer participatory training and research in five countries in the Greater Mekong Subregion (Cambodia, the Lao People’s Democratic Republic, Thailand, Viet Nam and Yunnan Province of China).

The Programme underwent an external review in November 2005. Overall assessment of progress was positive and recommendations were made with regard to strengthening work for the rest of Phase II. The Programme, and project GCP/RAS/209/NOR in particular, underwent an independent external Final Evaluation in November 2008. Its major findings echoed those of the 2005 Mid-term Review, expressed praise for the Programme’s achievements and, given newly emerging needs and priorities for regional collaboration as

expressed by the member countries, recommended that donors continue funding support for a third phase.

### 1.3 OBJECTIVES OF THE PROGRAMME

The Regional Programme's development and immediate objectives, as formulated in the Phase II Project Documents and echoed in the GCP/RAS/209/NOR Project Addendum, were as follows.

The development objective was to support smallholder vegetable farmers, primarily in the Greater Mekong Subregion, in achieving more sustainable livelihoods by assisting with the efficient, profitable, healthy and environmentally sound production of vegetables through IPM training and the sustained application of its principles and methods.

The immediate objectives were to:

- strengthen and expand the capacity of government agencies and NGOs to carry out IPM training and continue farmer follow-up learning and experimentation activities;
- create and strengthen groups of smallholder farmers so that they can take collective action in support of ecologically-based vegetable production and marketing; and
- institutionalize mechanisms for generating sustainable solutions to technical crop production and protection problems faced by vegetable farmers.

These regional objectives remained relevant overall and steered regional programme development throughout the Phase II Programme (2002-2008). However, based on the Regional Programme objectives above, country-specific objectives, implementation strategies and result-based logical frameworks were formulated at the start of project GCP/RAS/209/NOR, in order to make programme interventions in each of the member countries more locally relevant. The development of Country Strategy Papers (posted on the Programme's Web site: [www.vegetableipmasia.org](http://www.vegetableipmasia.org)) helped to facilitate the development of country monitoring and evaluation (M&E) systems, and progress reporting.

## 2. RESULTS AND CONCLUSIONS

The 2008 Final Evaluation of the FAO Vegetable IPM Phase II Programme, and of project GCP/RAS/209/NOR in particular, made a full assessment of programme results and achievements, and formulated recommendations relevant to FAO, its member countries and donor governments. The findings of the Mission are summarized from a regional perspective below.

### 2.1 MEMBER COUNTRY DEVELOPMENT POLICIES, NEEDS AND PRIORITIES

The Final Evaluation found that the FAO Regional Vegetable IPM Programme was both important and timely. Countries are increasingly developing policies for food security, food safety and improvement of rural incomes, and the FAO Vegetable IPM Programme is a key component of all of these.

After food staples, vegetables are the most important component of a healthy diet, providing vitamins, minerals and fibre. Any food security programme must look at securing vegetable supplies, as unchecked pests and diseases can take up to 100 percent of vegetable crop yields. Reliance on pesticides alone has proved of mixed benefit as a solution and the FAO IPM Programme has shown that IPM (which may utilize pesticide, but in combination with other ecologically sound techniques) is a far better and more sustainable solution to increased yields and product quality of vegetables.

The misuse of pesticides by farmers trying to control vegetable pests and diseases has become an increasing concern for most countries in relation to food safety. There have been numerous recorded cases of acute poisoning as a result of the consumption of vegetables with many times the permitted residue levels and there is abundant evidence of acute and chronic effects on the health of those farmers and their families who apply frequent toxic sprays to their crops. Once again, IPM is a core solution to this problem as it manages pest and disease problems with minimal applications of chemicals, utilizing the least dangerous ones only when such use is necessary.

The Final Evaluation found that the IPM Programme has been highly relevant in this regard to the needs and policies of all the countries involved.

## 2.2 ACHIEVEMENT OF PROGRAMME OBJECTIVES AND OUTPUTS

The Final Evaluation assessed the achievement of the three overall objectives of the Programme as follows.

The first objective was to increase the capacity of national IPM programmes, other government agencies, NGOs and farmer trainers to implement IPM training and promote sustained IPM practices among smallholder vegetable farmers. The Final Review mission noted that outputs under this objective had been fully achieved in all member countries.

The second objective was to create or strengthen local groups and networks of smallholder vegetable IPM farmers to enable them to undertake continuing action in support of ecologically-based vegetable production. The Final Evaluation Mission noted that two outputs (increased focus on continuing action research, and coordination and collaboration with NGOs) were achieved in full; the third (use and awareness of farmer groups, related agencies and technical institutions) was achieved, but probably not to the level expected; despite high awareness among participating farmer groups, the use of technical institutions was less than it might have been.

The third objective was to institute sustainable arrangements for the solution of technical problems encountered in IPM training programmes and field activities. The Final Evaluation Team found great variation in the degree of success among the countries involved. It found a high level of political support in all countries involved, but varying levels of practical government support. There were very high levels in China and Viet Nam, which are well on the way to achieving self-sustaining national IPM programmes. There was also a good level of practical government support in Thailand, but this was much less evident in Cambodia and the Lao People's Democratic Republic.

Overall, the Final Evaluation Mission had difficulty in attributing outputs to national programmes or to FAO, though the Mission noted that it did not matter which agency was responsible as long as the output was achieved, and the seamlessness of the achievement was a sign of effective cooperation between FAO and the country programmes.

The Final Evaluation Team considered programme management to be very efficient and rated the whole of the FAO IPM team, both at regional and country levels, as having performed very well. It also noted a high degree of coordination and dialogue between FAO and the national programmes, resulting in effective programme management and a set of impressive overall programme achievements.

### 2.3 ASSESSMENT OF EFFECTS, IMPACT AND SUSTAINABILITY

The Final Evaluation found the capacity for management and implementation of vegetable IPM to have been strengthened significantly in all countries, although least in the Lao People's Democratic Republic. It commended the Programme for the different institutional approaches that were tailored to the different country situations. This resulted in good capacity everywhere and, in most of the countries, in good government support for practical work. Government support was lowest in Cambodia and the Lao People's Democratic Republic, although good partnerships were made with NGOs in Cambodia, resulting in a strong national IPM programme there. In the Lao People's Democratic Republic policy support was weak, as were staff and financial resources.

Regarding equity of project benefits, the Final Evaluation found that results were equitable in terms of gender and economic status. They also appeared to have been equitable with regard to ethnicity (ethnic minorities). The Evaluation found strong empowerment of all participating farmers through FFSs, with a particularly strong positive impact on women farmers.

The Final Evaluation found that the Programme had been implemented in a very cost-efficient manner. A broad range of activities and a major impact had been achieved with a limited input of resources, largely owing to the dedication and efficiency displayed by programme staff.

In relation to impact assessment studies, the Final Evaluation noted that studies had been conducted in all the countries visited, but found that these had either suffered from methodological flaws or that their scope of analysis had been too limited. The design and implementation of impact assessment studies on vegetable IPM training interventions is highly complicated and the Programme was faced by multiple challenges with regard to bringing such exercises to a satisfactory completion. Nonetheless, clear and hard evidence of positive impact of IPM uptake would be very valuable for increasing countries' commitments to IPM support in the future, as indications of practical and economic benefits are among the strongest lobbying tools for such support. Further attention to impact assessment, both at regional and national levels, is therefore relevant and needed in the future.

### 3. RECOMMENDATIONS

As confirmed during the Final Evaluation, the immediate requirements for vegetable production in Asia over the coming years are as follows.

There should be an increase in the overall quantity of production. An important component of this will be the reduction of yield loss caused by pests and diseases, with increased and improved IPM playing an integral part. In addition, climate change is impacting on agricultural production and protection and there is thus a need to include risk mitigation strategies in farmer training programmes.

There should be an increase in the overall quality of production. The produce should not exceed maximum residue levels of pesticides and, as far as possible, should be free of any pesticide residue, microbiological contamination and heavy metal residues. Each producing country should develop crop-specific Good Agricultural Practice (GAP) standards for production and all produce should meet these standards. Such crop-specific standards will then build towards more general GAP programmes. A system of GAP accreditation should be introduced to recognize product quality where this does not already exist. IPM will be an integral contributor to safe production.

Farmers who produce GAP-accredited produce should receive market recognition of the premium quality of their product, which may include higher prices per unit of product, access to markets not otherwise available, or assurance of sales through contract production for large urban and export markets. IPM-FFS graduate farmers should be among the main beneficiaries of these developments. In addition, this aspect of market recognition will meet the goal of most countries to increase rural incomes.

These developments will also contribute to national goals of improved health of farming communities and of consumers.

#### 3.1 RECOMMENDATIONS TO MEMBER COUNTRIES

All member countries should critically review and update their pest and pest management policies and strengthen their regulatory inspection and enforcement systems in order to bring these into line with the latest set of best practices and the requirements of international agreements and conventions. This would ensure a better policy and government

regulatory support environment, enabling national IPM programmes to flourish and continue their important farmer education work.

Some member countries of the Regional IPM Programme (e.g. China and Viet Nam) are making funds available to scale up IPM training. In other member countries (e.g. Cambodia and the Lao People's Democratic Republic) this support remains minimal. It is recommended that all member country governments allocate adequate financial support, potentially derived from taxing pesticides, for farmer IPM and GAP education in their own countries.

As national IPM programmes are scaled up, the development of M&E systems for quality control training and the impact assessment of IPM and GAP training are increasingly important. Member countries should be encouraged to develop and support robust M&E and impact assessment initiatives and have these documented.

The context and focus of IPM and GAP training interventions should be the whole production system, from the sourcing of the seed, through the field to the farm-gate, and from the farm to the market and on to the consumer's table. All other aspects will be components of this holistic system.

### 3.2 RECOMMENDATIONS FOR PHASE III

The third phase of the FAO IPM Programme should maintain strong linkages with the ongoing Pesticide Risk Reduction Project (GCP/RAS/229/SWE). Rather than having a strict geographical and commodity focus, the third phase should allow for broader country membership and address crop protection and crop production concerns in a wider variety of commodities, as locally relevant and based on government requests.

As national IPM programmes are increasingly capable of implementing IPM training and accessing local funds, more support should be given to assistance in the realm of pest and pesticide management policy review and quality control for IPM training programmes.

### 3.3 RECOMMENDATIONS TO DONORS

Donor governments should urgently consider providing support to a third phase of the FAO Regional IPM Programme, given the vital importance of agricultural development in Asia in the context of food security and food safety concerns and for trade facilitation.

Appendix 1

## PROJECT STAFF

<u>Name</u>	<u>Function</u>	<u>Dates of Service</u>	
		<u>Starting Date</u>	<u>Concluding Date</u>
<u>National programme leaders and counterparts</u>			
<u>Cambodia</u>			
So Khan Rithykun	Deputy Director General, General Directorate of Agriculture	Jan. 2005	Dec. 2008
Pen Vuth	National IPM Programme Director	Jan. 2005	Dec. 2008
Ngin Chhay	National IPM Programme Coordinator	Jan. 2005	Dec. 2008
Chou Cheythyrieth	Vegetable IPM Project Coordinator	May 2007	Dec. 2008
Neak Thon	Technical Officer	Jan. 2007	June 2007
Oum Eng Setha	Technical Officer	Jan. 2007	May 2007
Srun Khema	Assistance Project Coordinator	Jan. 2008	Dec. 2008
Ing Sina	National IPM Training Officer	Jan. 2005	June 2008
Chhit Mak	National IPM Training Officer	July 2008	Dec. 2008
Pou Sovann	Executive Director	Jan. 2005	Dec. 2008
Hout Thon	Driver	Jan. 2005	Dec. 2008
<u>Lao People's Democratic Republic</u>			
Somnuck Thirasack	National IPM Project Director	Jan. 2005	July 2005
Somsanong			
Litthamalay	National IPM Project Coordinator	Jan. 2005	July 2005
Viengsavay			
Sengsoulivong	National IPM Project Director	July 2005	Aug. 2005
Soukkhavong			
Khodsimuong	National IPM Project Coordinator	Aug. 2005	Jan. 2008
Viravanh	Director General, Department of Agriculture (DoA)	Aug. 2005	Dec. 2008
Phannourath			
Vilaysouk	Director, Plant Protection Centre, DoA	Jan. 2005	Sept. 2007
Khennavong			
Khamtanh	Director, Plant Protection Centre, DoA	Jan. 2008	Dec. 2008
Thadavong			
Keo Oudone	National Vegetable IPM Project Coordinator	Feb. 2008	Dec. 2008
Philangam			
Phoukhaothong			
Sikaysone	Technical Staff	Feb. 2008	Dec. 2008

<u>Name</u>	<u>Function</u>	<u>Dates of Service</u>			
		<u>Starting Date</u>		<u>Concluding Date</u>	
Kaysone					
Senesombath	Intern	Jan.	2005	June	2008
Sengsathith					
Phalakhone	Intern	Jan.	2005	June	2008
Soukanda Vichitry	Intern	Jan.	2005	June	2008
Somkhith Sengsai	Intern	July	2008	Dec.	2008
<u>Thailand</u>					
Thongchart	Director General, Department of				
Raksakul	Agricultural Extension (DoAE)	Jan.	2005	Aug.	2005
Preecha	Director, Bureau of Agriculture,				
Sombunprasert	DoAE	Jan.	2005	Oct.	2007
Patcharee	Director, Pest Management Division,				
Menakanit	DoAE	Jan.	2005	Oct.	2006
Amporn Wintotai	Entomologist, DoA	Jan.	2005	June	2008
Songsak	Director General, DoAE	Jan.	2005	Oct.	2008
Wongbhumiwatana					
Kamol Kasemsuk	Director, Bureau of Agriculture Production Quality Development, DoAE	Jan.	2005	Dec.	2008
Lawan Jeerapong	Director, Pest Management Division, Bureau of Agriculture Production Quality Development, DoAE	Jan.	2005	Dec.	2008
Areepan	Director, Biological Control Group,				
Upanisakorn	Pest Management Division, DoAE	Jan.	2005	Dec.	2008
Wasanti Boonhor	Director, Petchabun Provincial Agricultural Extension, DoAE	Jan.	2005	Oct.	2007
Wichit Kamolwarin	Director, Petchabun Provincial Agricultural Extension, DoAE	Nov.	2008	Dec.	2008
Somsak	Extensionist, Petchabun Provincial				
Summawan	Agricultural Extension, DoAE	Jan.	2005	Dec.	2008
Marut Jatiket	Director, Thai Education Foundation	Jan.	2005	Dec.	2008
<u>Viet Nam</u>					
Nguyen Quang Minh	Director General of Plant Protection Department, Ministry of Agriculture and Rural Development (MARD)	Jan.	2005	Dec.	2008
Le Mau Toan	Vice Director of Plant Protection Department, MARD	Jan.	2005	Dec.	2008
Ngo Tien Dung	National IPM Programme Coordinator	Jan.	2005	Dec.	2008
Le Tien Binh	Vegetable IPM Coordinator	Jan.	2005	Dec.	2008
<u>Yunnan Province, China</u>					
Xia Jingyuan	Director General, National Agro-technical Extension and Service Centre (NATESC)	Jan.	2005	Dec.	2008

<u>Name</u>	<u>Function</u>	<u>Dates of Service</u>			
		<u>Starting Date</u>		<u>Concluding Date</u>	
Zhong Tianrun	National IPM Programme Coordinator	Jan.	2005	Dec.	2008
Zhu Enlin	Director, Pest Control Division, NATESC	Jan.	2005	Dec.	2008
Yang Puyun	Deputy Director, Pest Control Division, NATESC	Jan.	2005	Dec.	2008
Li Ping	Senior Agronomist, Vegetable IPM Programme	Jan.	2005	Dec.	2008
Shan Xunan	Agronomist, Vegetable IPM Programme	Jan.	2005	Dec.	2008
Zhou Jinyu	Director, Plant Protection Station, Yunnan Province	Jan.	2005	Dec.	2008
Lu Jianping	Senior Agronomist Plant Protection Station, Yunnan Province	Jan.	2005	Dec.	2008
Li Yahong	Agronomist, Plant Protection Station, Yunnan Province	Jan.	2005	Dec.	2008
Han Zhongliang	Agronomist, Plant Protection Station, Yunnan Province	Jan.	2005	Dec.	2008
<u>Bangladesh</u>					
Shachindra	Director of Plant Protection				
Chandra Debnath	Wing, DoAE	Jan.	2005	Dec.	2008
Tariq Hassan	Director General, DoAE	Jan.	2005	Dec.	2008
Hein Bijlmakers	Training Adviser, IPM	Jan.	2005	Dec.	2008
<u>Indonesia</u>					
Soekirno	Director of Crop Protection on Horticulture, Ministry of Agriculture	Jan.	2005	Dec.	2008
Warsito	IPM Researcher, International Potato Centre	Jan.	2005	May	2005
Handoko Widagdo	World Education NGO	Jan.	2005	May	2005
Agung Wahyana	Director, <i>Lembaga Pengembangan Teknologi Pedesaan</i> (LPTP) NGO	Jan.	2005	May	2005)
Sumino	Head Sustainable Agriculture, LPTP	Jan.	2005	Dec.	2008
Sri Wahyuning	Field Officer, LPTP	Jan.	2005	Dec.	2008
<u>Philippines</u>					
J. Binamira	National IPM Programme Coordinator	Jan.	2005	Dec.	2008
D. Callo	National IPM Programme	Jan.	2005	Dec.	2008
H. Tauli	National IPM Programme	Jan.	2005	Dec.	2008
W. Cuaterno	Director, Plant Protection Unit	Jan.	2005	Dec.	2008
V. Justo	Entomologist, National Crop Protection Centre	Jan.	2005	Dec.	2008

<u>Name</u>	<u>Function</u>	<u>Dates of Service</u>	
		<u>Starting Date</u>	<u>Concluding Date</u>
<u>International and national professional and general service staff</u>			
<u>Cambodia</u>			
Ngin Chhay	National IPM Expert	Jan. 2005	Dec. 2008
Kong Kea	Vegetable IPM Project Coordinator Training Coordinator for Action Research on System of Rice Intensification (SRI) and Soil Ecology	Sept. 2005	Nov. 2005
D. Cupitt	Vegetable IPM Consultant	Dec. 2005	Feb. 2006
R. Arnst	Programme Development Officer (PDO)	Feb. 2008	Aug. 2008
A.L.M. Abubakar	PDO	Jan. 2005	Jan. 2007
Chea Lira	IPM Administrative Clerk	Feb. 2007	Dec. 2008
Ven Ratana	IPM Finance Clerk	Jan. 2005	Dec. 2008
Chhay Saran	Driver	Jan. 2005	Dec. 2008
Hok Oun	Office Cleaner	Jan. 2005	Aug. 2007
Ouk Onn	Office Guard	Jan. 2005	Dec. 2008
Sok Vey	Office Guard	Aug. 2007	Dec. 2008
Pith Lyna	Intern	July 2007	Dec. 2008
Srean Soknim	Intern	July 2007	Dec. 2008
<u>Lao People's Democratic Republic</u>			
<u>Thongsavanh</u>			
Taipangnavong	National IPM Expert	Jan. 2005	Dec. 2008
<u>Vornthalom</u>			
R. Arnst	Vegetable IPM PDO	Jan. 2005	Jan. 2007
J.W. Ketelaar	Chief Technical Adviser (CTA)/ Team Leader	Jan. 2005	Dec. 2008
Chanthavong	IPM Senior Administrative Assistant	Jan. 2005	Dec. 2008
<u>Kalathone</u>			
Kouaykesone	IPM Administrative Assistant	Jan. 2005	Dec. 2008
<u>Bounmy</u>			
Sysouphanh	Driver	Jan. 2005	Dec. 2008
<u>Thailand/Regional Programme management unit</u>			
J.W. Ketelaar	CTA/PDO	Jan. 2005	Dec. 2008
A.L.M. Abubakar	Regional Programme Development Officer	Feb. 2007	Dec. 2008
<u>Tattanakorn</u>			
Moekchantoek	National IPM Expert	Jan. 2005	Dec. 2008
<u>Nawarat</u>			
Phayungkij	Administrative Assistant	Jan. 2005	Dec. 2008
Jirawat	Information Technology/ Office Assistant	May 2007	Dec. 2008
Anansirikamol	Office Assistant	Oct. 2005	June 2006
Jesada Vichienchai	Driver		

<u>Name</u>	<u>Function</u>	<u>Dates of Service</u>	
		<u>Starting Date</u>	<u>Concluding Date</u>
<u>Viet Nam</u>			
Le Thi Thu Huong	FAO National Expert	Jan. 2005	Oct. 2006
K. Stubbered	Associate Professional Officer	Aug. 2005	Aug. 2007
D. Cuppit	Pest Management Researcher	Sept. 2005	June 2006
Ngo Thi			
Hoang Lam	IPM Programme Assistant	Jan. 2005	Aug. 2006
Tran Thi			
Minh Loan	IPM Programme Assistant	Jan. 2005	May 2008
Tran Van Hieu	Accountant/Office Manager	Jan. 2005	Dec. 2008
Le Thi Ha	Technical Assistant	April 2008	Sept. 2008
E. van de Fliert	Programme Development Officer	Jan. 2005	June 2006
A.L.M. Abubakar	PDO	Feb. 2007	Dec. 2008
Nguyen Huy			
Trung	Driver	Jan. 2005	Dec. 2008
<u>Yunnan Province, China</u>			
Hu Xinmei	National Programme Officer	Jan. 2005	Dec. 2008
E. van de Fliert	PDO	Jan. 2005	June 2006
J.W. Ketelaar	CTA	Jan. 2005	Dec. 2008
Yang Fujia	Driver	Jan. 2005	Dec. 2008
<u>Philippines</u>			
C. Olarte	Administrative Assistant	Jan. 2005	Dec. 2005
C. Perez	Driver	Jan. 2005	Dec. 2005
<u>Consultants</u>			
<u>Cambodia</u>			
H. van der Wulp			
	Backstopping	March 2005	March 2005
		Sept. 2005	Sept. 2005
U. Johanson	FFS	Sept. 2005	Sept. 2005
B. Gohl	FFS	Sept. 2005	Sept. 2005
A. Van Bruggen	Mid-term Evaluation	6 Nov. 2005	12 Nov. 2005
S. Hansen	Mid-term Evaluation	6 Nov. 2005	12 Nov. 2005
Koung Sokunthea	Training	2005	2005
A. Mishra	Participatory Farmer Action	17 Nov. 2005	22 Nov. 2005
	Research on SRI	15 Dec. 2005	20 Dec. 2005
M. Corado	Participatory Farmer Action	17 Nov. 2005	22 Nov. 2005
	Research on SRI	15 Dec. 2005	20 Dec. 2005
Koung Sokunthea	Participatory Farmer Action		
	Research on SRI	March 2006	Aug. 2006
Abha Mishra	Participatory Farmer Action		
	Research on SRI	March 2006	Aug. 2006
M. Corado	Participatory Farmer Action		
	Research on SRI	March 2006	Aug. 2006
D. Cupitt	Vegetable Disease and Staff Development	3 Sept. 2006	8 Sept. 2006

<u>Name</u>	<u>Function</u>	<u>Dates of Service</u>	
		<u>Starting Date</u>	<u>Concluding Date</u>
M. Corado	Participatory Farmer Action	8 Sept. 2006	15 Sept. 2006
	Research on SRI	13 Oct. 2006	19 Oct. 2006
Koung Sokunthea	Participatory Farmer Action	30 Sept. 2006	3 Oct. 2006
	Research on SRI	11 Nov. 2006	13 Nov. 2006
	Workshop Support	17 Oct. 2006	19 Oct. 2006
Abha Mishra	Backstopping	20 Nov. 2006	25 Nov. 2006
H. van der Wulp	Workshop Preparation	24 Feb. 2007	3 March 2007
D. Cupitt	Technical Support	24 Oct. 2006	24 March 2007
G. Walter-Echols	Impact Assessment Preparation	3 April 2007	6 April 2007
Chea Samnang	Impact Assessment Preparation	5 April 2007	9 April 2007
M. Corado	Technical Backstopping	4 June 2007	9 June 2007
Ho Van Chien	Technical Backstopping	4 June 2007	9 June 2007
Pham Van Du	Technical Backstopping	4 June 2007	9 June 2007
Preap Visarto	Workshop Resource Person	4 June 2007	9 June 2007
Buntuon Simona	Workshop Resource Person	4 June 2007	9 June 2007
Chea Samnang	Workshop Resource Person	4 June 2007	9 June 2007
Lim Guan Soon	Coconut Programme Evaluation	17 June 2007	24 June 2007
Ly Sereivuth	Coconut Beetle Programme	18 June 2007	23 June 2007
M. Corado	SRI Workshop	8 July 2007	10 July 2007
Abha Mishra	SRI Workshop	8 July 2007	10 July 2007
Koung Sokunthea	SRI Workshop	8 July 2007	10 July 2007
M. Corado	Technical Backstopping	3 Aug. 2007	6 Aug. 2007
Ho Van Chien	Technical Backstopping	30 Aug. 2007	8 Sept. 2007
D. Cupitt	Technical Support to IPM Team	1 May 2007	31 Oct. 2007
Tattanakorn	Vegetable Disease Diagnosis,		
Moekchantuk	Ecology and Management	20 Sept. 2007	28 Sept. 2007
V. Justo	Vegetable Disease Diagnosis,		
	Ecology and Management	20 Sept. 2007	28 Sept. 2007
M.G. Patricio	Vegetable Disease Diagnosis,		
	Ecology and Management	20 Sept. 2007	28 Sept. 2007
Pyone Pyone Kyi	Vegetable Disease Diagnosis,		
	Ecology and Management	20 Sept. 2007	28 Sept. 2007
Prabhat Kumar	Vegetable Disease Diagnosis,		
	Ecology and Management	20 Sept. 2007	28 Sept. 2007
L. Black	Vegetable Disease Diagnosis,		
	Ecology and Management	20 Sept. 2007	28 Sept. 2007
Ho Van Chien	Refresher Training	10 Oct. 2007	20 Oct. 2007
D. Cupitt	FFS and Post-FFS Activities	1 May 2007	31 Oct. 2007
M. Corado	Technical Backstopping	4 Nov. 2007	17 Nov. 2007
Ho Van Chien	Technical Backstopping	12 Nov. 2007	17 Nov. 2007
Pham Van Du	Technical Backstopping	5 Dec. 2007	11 Dec. 2007
Ho Van Chien	Technical Backstopping	8 Dec. 2007	11 Dec. 2007
H. van der Wulp	Technical Backstopping	17 Dec. 2007	22 Dec. 2007
M. Corado	Technical Backstopping	4 Dec. 2007	21 Dec. 2007
Ho Van Chien	Technical Backstopping	20 Jan. 2008	26 Jan. 2008
Pham Van Du	Technical Backstopping	20 Jan. 2008	26 Jan. 2008

<u>Name</u>	<u>Function</u>	<u>Dates of Service</u>			
		<u>Starting Date</u>		<u>Concluding Date</u>	
M. Corado	Technical Backstopping	20 Jan.	2008	26 Jan.	2008
M. Corado	Technical Backstopping	24 Jan.	2008	3 Feb.	2008
D. Cupitt	Support to National IPM Team	4 Feb.	2008	3 Aug.	2008
<u>Lao People's Democratic Republic</u>					
H. van der Wulp	Visits to Vegetable IPM Programme	March	2005	March	2005
		Sept.	2005	Sept.	2005
Le Cao Luong	Follow-up and Training		2005		2005
Wilco.J.M.M. Liebregts	Biological Control	30 Sept.	2005	4 Oct.	2005
Hasan Bolkan	Mid-term Evaluation	3 Nov.	2006	6 Nov.	2005
D. Shallon	Mid-term Evaluation	3 Nov.	2006	6 Nov.	2005
Yang Pu Yun	Mid-term Evaluation	3 Nov.	2006	6 Nov.	2005
M. Corado	Training in Soil Ecology and Vegetable Production	3 June	2006	6 June	2006
		17 June	2006	8 July	2006
		16 July	2006	21 July	2006
		12 Aug.	2006	18 Aug.	2006
		1 Oct.	2006	7 Oct.	2006
Tattanakorn	Training in Soil Ecology and Vegetable Production	17 June	2006	8 July	2006
Moekchantuk		16 July	2006	21 July	2006
		12 Aug.	2006	18 Aug.	2006
		1 Oct.	2006	7 Oct.	2006
P. Kumar	Training in Soil Ecology and Vegetable Production	29 July	2006	4 Aug.	2006
		9 Sept.	2006	15 Sept.	2006
M. Corado	Training in Soil Ecology and Vegetable Production	1 Oct.	2006	7 Oct.	2006
Tattanakorn	Training in Soil Ecology and Vegetable Production	9 Sept.	2006	15 Sept.	2006
Moekchantuk		1 Oct.	2006	7 Oct.	2006
Lim Guan Soon	Survey of Diamond Back Moth (DBM) Parasitoids	29 Jan.	2007	8 Feb.	2007
Areepan	Training in Biological Control of DBM	29 March	2007	6 April	2007
Upanisakorn					
Tattanakorn	Training in Biological Control of DBM	29 March	2007	6 April	2007
Moekchantuk					
Lim Guan Soon	Evaluation and Development of Coconut IPM Management	26 Sept.	2007	4 Oct.	2007
H. van der Wulp	Pesticide Survey	7 Jan.	2008	18 Jan.	2008
Tattanakorn					
Moekchantuk	Forum and Workshop Facilitation	21 Feb.	2008	28 Feb.	2008
P. Kumar	Refresher Training Preparation	1 July	2008	3 July	2008
	Training	25 July	2008	4 Aug.	2008
M.G. Patricio	Training	25 July	2008	4 Aug.	2008

<u>Name</u>	<u>Function</u>	<u>Dates of Service</u>			
		<u>Starting Date</u>		<u>Concluding Date</u>	
<u>Thailand</u>					
Lim Guan Soon	Baseline Survey, Introduction	16 Jan.	2005	23 Jan.	2005
	Rearing and Release of DBM	8 May	2005	31 May	2005
	Backstopping	1 Aug.	2005	14 Aug.	2005
		7 Nov.	2005	11 Nov.	2005
		20 Jan.	2006	26 Jan.	2006
Tattanakorn	Workshop Facilitation	7 Nov.	2005	10 Nov.	2005
Moekchantuk		15 Nov.	2005	17 Nov.	2005
Yang Puyun	Mid-term Evaluation	31 Oct.	2005	2 Nov.	2005
Hasan Bolkan	Mid-term Evaluation	31 Oct.	2005	2 Nov.	2005
D. Shallon	Mid-term Evaluation	31 Oct.	2005	2 Nov.	2005
Lim Guan Soon	Technical Backstopping	2 June	2006	7 June	2006
	Resource Person	14 Jan.	2007	25 Jan.	2007
Tattanakorn	Trainer/Facilitator	9 July	2007	20 July	2007
		Moekchantuk	9 July	2007	20 July
Lim Guan Soon	Technical Backstopping	12 Feb.	2008	14 Feb.	2008
<u>Viet Nam</u>					
Lim Guan Soon	Review of DBM Rearing and Release	23 Jan.	2005	1 Feb.	2005
		4 May	2005	9 May	2005
		1 Aug.	2005	5 Aug.	2005
Lim Guan Soon	Evaluation of DBM Rearing and Release	17 Jan.	2006	19 Jan.	2006
Yang Puyun	Mid-term Evaluation	6 Nov.	2006	12 Nov.	2006
Hasan Bolkan	Mid-term Evaluation	6 Nov.	2006	12 Nov.	2006
D. Shallon	Mid-term Evaluation	6 Nov.	2006	12 Nov.	2006
A.L.C. Morales- Abubakar	Vegetable IPM Programme	13 June	2006	17 June	2006
	Technical Backstopping	6 July	2006	14 July	2006
		21 Aug.	2006	30 Aug.	2006
		18 Sept.	2006	26 Sept.	2006
T. Hofsvang	Various Missions	9 Sept.	2006	Feb.	2007
O.M. Eklo	Various Missions	9 Sept.	2006	Feb.	2007
A. Anderson	Various Missions	9 Sept.	2006	Feb.	2007
Vinh Hong Le	Various Missions	9 Sept.	2006	Feb.	2007
M. Almyik	Various Missions	9 Sept.	2006	Feb.	2007
N.S. Johansen	Various Missions	9 Sept.	2006	Feb.	2007
N.O. Svendsen	Various Missions	9 Sept.	2006	Feb.	2007
Tran Tan Viet	Biological Control of DBM	13 Nov.	2006	28 Feb.	2007
Do Dang Kiem	Editing	8 Jan.	2007	28 Feb.	2007
G. Walter-Echols	Impact Assessment	3 April	2007	6 April	2007
Areepan					
Upanisakorn	Workshop Facilitation	11 June	2008	13 June	2008
P. Kumar	Workshop Facilitation	23 Nov.	2008	1 Dec.	2008

<u>Name</u>	<u>Function</u>	<u>Dates of Service</u>	
		<u>Starting Date</u>	<u>Concluding Date</u>
<u>Yunnan Province, China</u>			
Xie Kaiyun	Editing	Aug. 2005	Dec. 2008
Li Ping	M&E System Development	Aug. 2005	Dec. 2008
Liu Wenxin	Data Analysis	Aug. 2005	Dec. 2008
	Impact Assessment Data Analysis	Aug. 2007	Nov. 2007
		Nov. 2007	Aug. 2008
A. van Bruggen	Mid-term Evaluation	1 Nov. 2005	5 Nov. 2005
S. Hansen	Mid-term Evaluation	1 Nov. 2005	5 Nov. 2005
P. Teng	Mid-term Evaluation	1 Nov. 2005	5 Nov. 2005
E. van de Fliert	Workshop Backstopping	23 Feb. 2008	29 Feb. 2008
Yang Puyun	Impact Assessment Data Analysis	Nov. 2007	Aug. 2008
<u>Philippines</u>			
H. Bolkan	Consultancy Mission	20 July 2005	22 July 2005
P. Kumar	Technical Backstopping	14 Dec. 2006	20 Dec. 2006
	Consultancy Mission	26 Feb. 2007	2 March 2007

Appendix 2

## TRAINING AND WORKSHOPS

<u>Participants</u>	<u>Study</u>	<u>Place</u>	<u>Date</u>	
FAO staff and key counterparts	Biannual regional Vegetable IPM Programme meeting	Luang Pabang, Lao People's Democratic Republic	27 April 29 April	2005- 2005
Lawan Jeerapong Kong Kea Le Thi Thu Huong Sri Wahyuning	Regional workshop on bio-fumigation	Benquet Cordilleras, Philippines	24 June 26 June	2005- 2005
Lawan Jeerapong Areepan Upanisakorn Thanin Phantein Somsak Sumawan Rojana Waijaroen Cherd Chooyoung	Study tour	Malaysia	18 July 22 July	2005- 2005
Nepali IPM Trainers	Study tour	Bangladesh	Sept.	2005
FAO staff and key counterparts	Biannual regional Vegetable IPM Programme meeting	Kanchanaburi, Thailand	15 Nov. 17 Nov.	2005- 2005
Srun Khema Thongsavanh Taipangnavong	International Field Day		23 Jan. 25 Jan.	2006- 2006
Jariya Pannan Supalak Nillit	Study tour	Viet Nam	20 Nov. 26 Nov.	2005- 2005
FAO staff and key counterparts	Biannual regional Vegetable IPM Programme meeting	Sihanoukville, Cambodia	5 April 7 April	2006- 2006
Lakchai Menakanit Areepan Upanisakorn Amporn Winotai Phimonphan Sakitram Samruay Phadpon Hag Muang Nan Ngin Chhay Ngo Tien Dung Ditdit Pelegrina Hu Xinmei	International workshop on community-based approaches to agricultural and natural resource management	Pathum Thani, Thailand	27 July 28 July	2006- 2006

<u>Participants</u>	<u>Study</u>	<u>Place</u>	<u>Date</u>	
V. Brunton	Study tour	Viet Nam	28 Aug.	2006- 10 Sept. 2006
FAO staff and key counterparts	Biannual regional Vegetable IPM Programme meeting	Lijiang, Yunnan, China	25 Oct.	2007- 27 Oct. 2007
Nilsa	Study tour	Cambodia, Viet Nam and Thailand	7 Nov.	2006- 15 Nov. 2006
Ngin Chhay Chea Samnang Srun Khema	Regional workshop on application of the environmental impact quotient (EIQ) model in the IPM Programme	Hanoi, Viet Nam	14 March	2007- 16 March 2007
Buntuon Simona Chea Samnang	Workshop on community-level management of Brown Plant Hopper (BPH) and associated virus diseases	Tien Giang, Viet Nam	28 March	2007- 30 March 2007
Ngin Chhay Srun Khema Yang Puyun Wang Huasheng Liu Wenxin	International workshop on application of the EIQ model in the IPM Programme	Hai Phong, Viet Nam	19 April	2007- 21 April 2007
FAO staff and key counterparts	Biannual regional Vegetable IPM Programme meeting	Hai Phong, Viet Nam	23 April	2007- 25 April 2007
Chhay Kry Bandit Vongkaysone Soudaphone Kaysone Senesombath Thongdam Phongphichith	TOT on school and community chemicals, health and environmental impact assessment, and agro-biodiversity conservation	Chiangrai, Thailand	26 May	2007- 2 June 2007
Li Yunguo Li Qing Do Dang Kiem Thongsavanh Taipangnavong Kaysone Senesombath	Field day on SRI	Roi Ed, Thailand	13 June	2007- 15 June 2007

<u>Participants</u>	<u>Study</u>	<u>Place</u>	<u>Date</u>
Chhay Kry Ing Sina In Sovannmony Shan Xunan Lu Jianping Phoukhaothong Sikhaysone Vidavanh Kodsanga Le Dinh Tham Nguyen Thi Hien Syaiful Vale Justo Carlito Indencia Sharad Marahatta Krishna Bhadra Adhikari	Regional training in biological control	Khon Khan, Thailand	9 July 2007- 20 July 2007
Ngin Chhay Chou Cheythyrieth Sok Kunthy Yang Puyun Liu Wenxin	Regional workshop on pesticide risk reduction impact assessment	Ho Chi Minh City, Viet Nam	23 July 2007- 25 July 2007
Pen Vuth Thach Ratana	BPH policy meeting	Ho Chi Minh City, Viet Nam	17 Aug. 2007
N.D. Mendoza R.G. Dela Cruz F.C. Sta. Cruz D.P. Callo J. Ketelaar	Study tour on IPM	United States and Mexico	29 July 2007- 5 Aug. 2007
Ngin Chhay Keam Makarady Thongsavanh Taipangnavong Zhou Jinyu Wang Kaixue Yang Song Ngo Tien Dung Areepan Upanisakorn Marut Jatiket J. Binamira	25th Asia-Pacific Plant Protection Commission meeting	Beijing, China	27 Aug. 2007- 30 Aug. 2007



<u>Participants</u>	<u>Study</u>	<u>Place</u>	<u>Date</u>
P. Ferrar Pham Van Du J. Rydders C. Tarazona	Final evaluation mission	Participating countries	28 Oct. 2008- 15 Nov. 2008
FAO staff, key counterparts from all member countries, donor and final evaluation mission team	Biannual regional Vegetable IPM Programme meeting	Bangkok, Thailand	12 Nov. 2008- 14 Nov. 2008
P. Kumar	Global Potato Conference	New Delhi, India	8 Dec. 2008- 13 Dec. 2008

Appendix 3

## MAJOR ITEMS OF EQUIPMENT PROVIDED

<u>Quantity</u>	<u>Item</u>	<u>Cost (USD)</u>
1	Computer, IBM Lenovo ThinkPad	1 595
1	Computer, notebook, HP TX1213	1 530
1	Computer, notebook, Sony Vaio	1 599
1	Computer, notebook, Toshiba Satellite	1 600
2	Photocopier, Ricoh	3 546
1	Computer, notebook, Toshiba Satellite	1 390
1	Projector, Benq PB	1 585
2	Computer, notebook, Dell Latitude D4200	3 787
1	Computer, desktop, Dell Optiplex 755	1 060
1	Air conditioner, Trane	1 098
1	Computer, laptop, Dell D620	1 477

Appendix 4

## DOCUMENTS PREPARED DURING THE PROJECT

All major FAO Vegetable IPM Phase II Programme and project documents prepared during the 2002-2009 period are posted on the Programme's Web site: [www.vegetableipmasia.org](http://www.vegetableipmasia.org).

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