

Tentative programme

Date		Training Activities	Remarks
Mon 6 Dec		Arrival at Tien Giang	
Tue 7 Dec	Am 8:30- 10:00	Opening Ceremonies <ul style="list-style-type: none"> • <i>Project Overview</i> • <i>Overview of FAO's IPM Programme in Asia</i> • <i>General Overview of Fruit Flies in Asia – species, life cycle, biology, crop losses and current management strategies</i> 	Dr. Prabhat Kumar, AIT Mr. Jan Willem Ketelaar, FAO-RAP Dr. Vijay Shanmugam
	10:00- 10:30	Tea break <u><i>Block I: Country Presentations:</i></u>	Chair: Mr. Jan W. Ketelaar
	10:30- 12:30	<u><i>Block I-a: GMS Country Presentations:</i></u> <ul style="list-style-type: none"> • Cambodia • Lao PDR • Myanmar • Thailand • Vietnam 	
	pm	<u><i>Block II-a: Fruit Fly Species Diagnosis, Biology and Ecology</i></u>	
		Laboratory work on identification of fruit fly species Practical work on setting up life cycle insect zoos (including inoculating “clean” fruits) and other studies to explore fruit fly ecology and biology, including host preferences and roosting behaviour	Dr. Vijay Shanmugam and Dr. Watchreeporn Orankanok, DoAE Dr. Prabhat Kumar, AIT
		Welcome party	
<i>Rapporteur for the Day: Dr Prabhat Kumar</i>			
<i>Host Team: Cambodia and Bangladesh</i>			
Wed 8 Dec	am	<u><i>Block II-b: Damage Symptoms Recognition and Assessment</i></u>	
		Collection of samples of fruit fly infested fruits and vegetables. Village walk and interaction with farm communities Processing of observations on occurrences, infestation and management practices	2 groups: Sapodilla orchards One group to village not employing fruit fly IPM practices One group to village employing fruit fly IPM practices Guidelines for village walk to be provided
	pm	<u><i>Block I-b: Other Country Presentations:</i></u> <ul style="list-style-type: none"> • Bangladesh • China • Indonesia • Nepal • Philippines • Timor Leste 	Chair: Mr. Jan W. Ketelaar
<i>Rapporteur for the Day: Dr Vijay Shanmugam</i>			
<i>Host Team: Laos and Indonesia</i>			

Thu 9 Dec	am	<u><i>Block II-c: Management Options for Fruit Fly</i></u>	
		<p>Practical work on collecting information from protein baits and different traps</p> <p>Processing information from field work to monitor fruit fly populations – including modifying the Agro EcoSystem Analysis as a tool for management decision making</p> <p><i>1 Traps and their use in fruit fly IPM (Methyl Eugenol and Cue-lure)</i></p> <p>Practical work on preparation of different traps</p> <p>Developing technical exercises to introduce traps and their use in fruit fly IPM in FFS (Home work to be submitted for review next day in English)</p>	<p>Baits and traps previously established for learning purpose of participants:</p> <p>Participants to work in 2 groups: One group to collect information from Star apple and Sapodilla orchards One group to collect information from Cucumber and Bittergourd fields</p> <p>Dr. Prabhat Kumar, AIT</p> <p>Dr. Malvika Chaudhary and Mr. Prabhakara M.S, BCRL</p> <p>Chair: Dr. Vijay Shanmugam</p>
	pm	<p><i>2 Protein baits and their use in fruit fly IPM</i></p> <p>Practical work on preparation of protein baits Dissections on adult fruit flies to show the difference between mature (protein fed) and newly emerged immature flies</p> <p>Checking and re-setting insect zoos; collecting information on life cycle experiments</p> <p>Developing technical exercises to introduce protein baits and their use in fruit fly IPM in FFS (Home work to be submitted for review next day in English)</p>	<p>Dr. Nguyen Van Hoa, SOFRI</p> <p>Practical work to be carried out within SOFRI premises</p> <p>Dr. Ho Van Chien, SRPPC</p> <p>Chair: Dr. Vijay Shanmugam</p>
<p><i>Rapporteur for the Day: Dr Malvika Chaudhary</i> <i>Host Team: Vietnam and Philippines</i></p>			
Fri 10 Dec	am	<p><i>3 Sanitation measures as a fruit fly control strategy</i></p> <p>Practical work on implementing sanitation measures</p> <p><i>4 Bagging and its use in fruit fly IPM</i></p> <p>Practical work on bagging (using bags of different</p>	<p>Mr. Le Quoc Dien, SOFRI 2 groups: Star apple orchards</p> <p>Compare fruits from gardens</p>

		materials – newspaper, cloth, plastic, etc.)	where bagging is practiced and where it is not (using different kinds of bags)
	pm	<p>Checking and re-setting insect zoos; collecting information on life cycle experiments</p> <p>Practical work on collecting information from protein baits and different traps</p> <p>Processing information from field work to monitor fruit fly populations for management decision making</p> <p>Developing technical exercises to introduce sanitation measures and bagging and their use in fruit fly IPM in FFS</p> <p>Take-home work: Designing Farmer Field Studies on Fruit Fly IPM</p>	<p>Dr. Ho Van Chien</p> <p>Dr. Nguyen Van Hoa</p> <p>Practical work to be carried out within SOFRI premises</p> <p>Dr. Ho Van Chien</p> <p>Chair: Dr. Vijay Shanmugam</p>
<p><i>Rapporteur for the Day: Dr Nguyen Van Hoa</i> <i>Host Team: Thailand and Nepal</i></p>			
Sat 11 Dec	am	<p><i>5 Conservation and augmentation of natural enemies of fruit flies (discussions to take off from insect zoo results)</i></p> <p><i>6 Biopesticides and their use in fruit fly IPM</i></p>	<p>Dr Prabhat Kumar</p> <p>Dr. Malvika Chaudhary and Mr. Prabhakara M.S, BCRL</p>
	pm	<p><i>7 Sterile Male Technology for fruit fly management</i></p> <p>Practical work on collecting information from different traps</p> <p>Processing information from field work to monitor fruit fly populations for management decision making</p> <p>Checking and re-setting insect zoos; collecting information on life cycle experiments</p> <p>Developing technical exercises to introduce biopesticides and their use in fruit fly IPM in FFS</p> <p>Visit to SOFRI VHT facilities</p> <p>Take-home work: Designing Farmer Field Studies on Fruit Fly IPM (cont.)</p>	<p>Dr. Watchreeporn Orankanok</p> <p>Dr. Ho Van Chien</p> <p>Practical work to be carried out within SOFRI premises</p> <p>Dr. Prabhat Kumar</p> <p>Dr. Ho Van Chien</p> <p>Chair: To be announced later</p> <p>Dr. Nguyen Van Hoa</p>
<p><i>Rapporteur for the Day: Mr. Le Quoc Dien</i> <i>Host Team: Myanmar and Timor Leste</i></p>			

Sun 12 Dec	am	Visit to area-wide Fruit Fly management programmes: Define area-wide management and how FFS farmer training can be applied in area-wide management of fruit fly	2 groups: One group to visit Dragon Fruit fields One group to visit Barbados cherry fields
	pm	Visit to facilities for producing protein baits	Briefing will be done in one group after which participants will be divided into three groups for touring the facilities.
Mon 13 Dec	am	<u>Block III: Design of Area-wide Best-bet Management Strategies for Fruit Fly</u>	
		From FFS to area-wide management: Discussions and designing a community-wide fruit fly management programme (A pre-requisite is the summary of baseline information and crop calendars from the key areas where implementation will take place.)	Dr. Prabhat Kumar
	pm	Designing a community-wide fruit fly management programme (cont. and also refer to Farmer Field Studies designed in earlier sessions as well as how to monitor populations of fruit fly) Presentations on community-wide fruit fly management programme	Chair: Dr. Vijay Shanmugam
<i>Rapporteur for the Day: Ms Alma Linda Abubakar</i> <i>Host Team: China and Philippines</i>			
Tue 14 Dec		<u>Block IV: Training Curriculum and Materials Development</u>	
	am	Presentation of exercises and curriculum for ToT/FFS	Chair: Ms. Dada C. Morales-Abubakar
	pm	Report out on results of observations from monitoring tools and insect zoo observations on life cycles, parasitization and parasitism levels Evaluation and course wrap up Closing ceremony Farewell party	Including insect zoos on parasitization and parasitism levels previously established for learning purpose of participants Dr. Prabhat Kumar and Dr. Ho Van Chien
<i>Rapporteur for the Day: Dr. Ho Van Chien</i> <i>Host Team: Vietnam and Bangladesh</i>			
Wed 15 Dec	am	Departure of participants	