

## 付 属 資 料

- 1．ミニッツ( 中間評価報告書 )
- 2．運営指導調査団報告書
- 3．運営指導調査団団長レター( 英文・和文 )
- 4．農業省の回答
- 5．シンポジウム出席簿
- 6．ワークショップ関連資料
- 7．シンポジウム関連資料
- 8．F P A から提出されたメモ



MINUTES OF UNDERSTANDING  
BETWEEN  
THE JAPANESE ADVISORY TEAM AND  
THE CONCERNED AUTHORITIES  
OF THE GOVERNMENT OF THE REPUBLIC OF THE PHILIPPINES  
ON THE JAPANESE TECHNICAL COOPERATION  
FOR  
THE PESTICIDE MONITORING SYSTEM DEVELOPMENT PROJECT

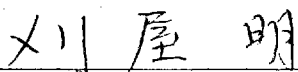
The Japanese Advisory Team (hereinafter referred to as "the Team") organized by Japan International Cooperation Agency (hereinafter referred to as "JICA") headed by Mr. Akira KARIYA visited the Republic of the Philippines from 13-22 September 1997.

The Team conducted overall review and interim evaluation on the performance of the Pesticide Monitoring System Development Project (hereinafter referred to as "the Project") and provided advice for the smooth implementation of the Project.

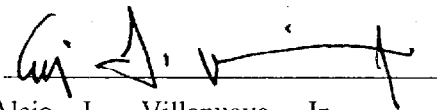
During its stay in the Republic of the Philippines, the Team exchanged views and had a series of discussions with the concerned authorities of the Government of the Republic of the Philippines with respect to desirable measures to be undertaken by both Governments for the successful implementation of the Project.

As a result of the discussions, the Team and the concerned authorities of the Government of the Republic of the Philippines agreed to recommend to their respective Governments the matters referred in the document attached hereto.

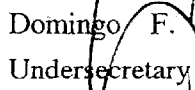
Metro Manila, 22 September 1999



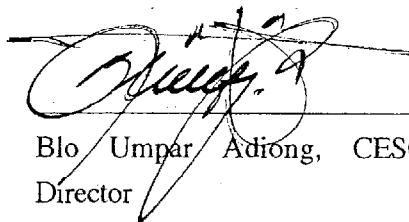
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The Advisory Team  
Japan International Cooperation Agency  
Japan



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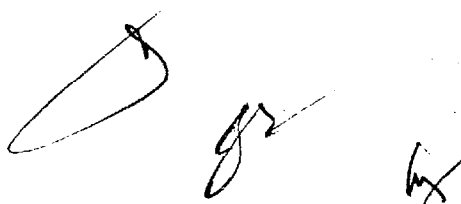


Blo Umpar Adiong, CESO II  
Director  
Bureau of Plant Industry  
Department of Agriculture  
Republic of the Philippines

THE ATTACHED DOCUMENT  
AN INTERIM EVALUATION REPORT  
BY THE JAPANESE ADVISORY TEAM  
FOR  
THE PESTICIDE MONITORING SYSTEM DEVELOPMENT PROJECT  
TABLE OF CONTENTS

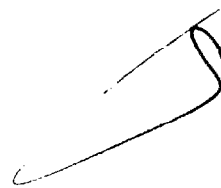
1. INTRODUCTION
2. ACTIVITIES
3. EVALUATION
  - 3-1 OBJECTIVES
  - 3-2 MEMBERS OF THE JAPANESE ADVISORY TEAM
  - 3-3 ITEMS
  - 3-4 METHOD
4. RESULTS
  - 4-1 ACCOMPLISHMENTS IN TERMS OF INPUTS
    - 4-1-1 INPUTS FROM JAPANESE SIDE
    - 4-1-2 INPUTS FROM PHILIPPINE SIDE
  - 4-2 PROJECT ACTIVITIES AND ACCOMPLISHMENTS
    - 4-2-1 PESTICIDE RESIDUE ANALYSIS
    - 4-2-2 PESTICIDE FORMULATION ANALYSIS
    - 4-2-3 SUPERVISED PESTICIDE RESIDUE TRIALS IN CROPS
    - 4-2-4 IMPROVEMENT OF MARKET BASKET RESEARCH TECHNOLOGY
    - 4-2-5 PROVISION OF NECESSARY INFORMATION FOR ESTABLISHING MRLs AND  
THE PESTICIDE SAFE USE DIRECTION
    - 4-2-6 PROVISION OF NECESSARY INFORMATION FOR SAFE HANDLING AND  
PROPER USE OF PESTICIDES
  - 4-3 PROJECT ACTIVITIES TO BE COMPLETED
    - 4-3-1 PESTICIDE RESIDUE ANALYSIS
    - 4-3-2 PESTICIDE FORMULATION ANALYSIS
    - 4-3-3 SUPERVISED PESTICIDE RESIDUE TRIALS IN CROPS
    - 4-3-4 IMPROVEMENT OF MARKET BASKET RESEARCH TECHNOLOGY
    - 4-3-5 PROVISION OF NECESSARY INFORMATION FOR ESTABLISHING MRLs AND  
THE PESTICIDE SAFE USE DIRECTION
    - 4-3-6 PROVISION OF NECESSARY INFORMATION FOR SAFE HANDLING AND  
PROPER USE OF PESTICIDE
5. RECOMMENDATIONS

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## ANNEXES

- ANNEX 1 List of Japanese Experts Dispatched
- ANNEX 2 List of Philippine Counterpart Personnel Accepted into Japan for Training
- ANNEX 3 List of Major Machinery and Equipment Provided by Japan
- ANNEX 4 List of Supplementary Funds to Cover Local Costs
- ANNEX 5 List of Philippine Counterparts Assigned



## 1. INTRODUCTION

The Government of the Republic of the Philippines requested technical assistance from the Government of Japan to improve the national program on pesticide monitoring in agriculture to achieve the final goal of supplying safe food within tolerable levels of pesticide residue through the development of a comprehensive system for monitoring pesticide residues and pesticide formulations.


The technical cooperation project entitled The Pesticide Monitoring System Development Project (hereinafter referred to as "the Project") of five years, which began from March 31, 1997, based on the Record of Discussions (hereinafter referred to as "R/D" ) signed on January 29, 1997.

## 2. ACTIVITIES

According to the aforementioned R/D and the detailed Tentative Schedule of Implementation (hereinafter referred to as the "TSI" ) signed on March 30, 1998, the project activities are being conducted in the following fields:

- 1) Improvement of methods of analysis on pesticide residues and formulations
  - 1)-1 Introduction of more appropriate methods of pesticide residue analysis
  - 1)-2 Introduction of more appropriate methods of pesticide formulation analysis
  - 1)-3 Integration of methods and updating of manuals on pesticide residue analysis
  - 1)-4 Integration of methods and updating of manuals on pesticide formulation analysis
- 2) Improvement of methods and technology of supervised pesticide residue trials in crops
  - 2)-1 Determination of the priority combination of crops and pesticides
  - 2)-2 Introduction of appropriate methods and technology of supervised pesticide residue trials in crops
  - 2)-3 Training persons to improve techniques of supervised pesticide residue trials in crops
  - 2)-4 Preparation of manuals on the techniques for supervised pesticide residue trials in crops
- 3) Improvement of methods and technology of market basket research
  - 3)-1 Introduction of more appropriate methods of market basket research
- 4) Provision of necessary information for establishing Maximum Residue Limits (MRLs) and the Pesticide Safe Use Direction
  - 4)-1 Introduction of more appropriate methods to estimate food factors for establishing MRLs from the food consumption
  - 4)-2 Provision of scientific advice to establish MRLs and Pesticide Safe Use Direction

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5) Provision of necessary information for safe handling and proper use of pesticides

5)-1 Designing of training program on safe handling and proper use of pesticides

5)-2 Preparation of manuals for the dissemination of information on safe handling and proper use of pesticides to the dealers and users

### 3. EVALUATION

#### 3-1 OBJECTIVES

This interim evaluation aims at assessing the accomplishments of the Project at the middle stage of the cooperation period and making recommendations for a more effective technical cooperation during the remaining period of the Project.

#### 3-2 MEMBERS OF THE ADVISORY TEAM

(1) Akira KARIYA: Leader/Pesticide Administration

Director, Research Institute of Japan Plant Protection Association

(2) Hisayoshi YAMAGISHI: Supervised Pesticide Field Trial

Residue Staff, Environmental Science Team,

Research Institute of Japan Plant Protection Association

(3) Makoto IRIE: Pesticide Residue Analysis/Pesticide Formulation Analysis,

Dissemination of Pesticide Safe Use

Chief of Disorder Investigation Affairs,

Technical Research Section, First Inspection Division,

Agricultural Chemicals Inspection Station,

Ministry of Agriculture, Forestry & Fisheries

(4) Masaki TAKAHASHI: Measures for Safe Food

Chief of Pesticide Residues,

Food Chemistry Division, Environmental Health Bureau,

Ministry of Health and Welfare

(5) Yukiyo MAEDA: Technical Cooperation

Staff, Agricultural Technical Cooperation Division,

Agricultural Development Cooperation Department, JICA

#### 3-3 ITEMS

##### 3-3-1 Project inputs

(1) Inputs from Japanese side

a) Dispatch of experts

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- b) Acceptance of Philippine counterpart personnel for training in Japan
- c) Provision of equipment, machinery and materials
- d) Supplementary funds to cover local costs
- e) Dispatch of study teams

(2) Inputs from Philippine side

- a) Assignment of counterpart personnel and administrative personnel
- b) Provision of current expenses

3-3-2 Project activities and accomplishments

3-3-3 Project activities to be completed

### 3-4 METHODS

The Team through report analysis, interviews and discussions, conducted this evaluation in accordance with the R/D and the TSI with personnel involved in the Project.

## 4. RESULTS

### 4-1 ACCOMPLISHMENTS IN TERMS OF INPUTS

#### 4-1-1 Inputs from Japanese side

##### 4-1-1-1 Dispatch of experts

The Japanese side dispatched eight (8) long-term experts according to the R/D and TSI. This includes the team leader, coordinator, and experts in the field of pesticide residue analysis, pesticide formulation analysis, supervised pesticide residue trials in crops, and dissemination of information on safe handling and proper use of pesticides; and nine (9) short-term experts have been dispatched in total of seven (7) fields as listed in ANNEX 1.

##### 4-1-1-2 Acceptance of Philippine counterpart personnel for training in Japan

The Japanese side accepted ten (10) counterpart personnel for training in Japan as listed in ANNEX 2.

##### 4-1-1-3 Provision of equipment, machinery and materials

The Japanese side has provided equipment, machinery, materials, and vehicles as listed in ANNEX 3 in order to effectively carry out the activities of the Project. All equipment, machinery, materials, and vehicles provided have contributed to the Project activities.

##### 4-1-1-4 Partial coverage of local costs

The Japanese side covered part of the local costs for the effective implementation and management of the Project activities. The expenditures made by the Japanese side are listed in ANNEX 4.

##### 4-1-1-5 Dispatch of study team

###### (1) Implementation study team

The Implementation study team was dispatched from 22 to 31 March, 1998 in order to formulate the

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detailed TSI as well as to discuss the major issues related to the Project.

(2) Management consultation team

The Management consultation team was dispatched from 14 to 20 March, 1999 in order to reconsider the Project activities and to modify a part of implementation structures of the activities, through the problem and object analysis using Project Cycle Management (PCM) method.

4-1-2 Inputs from Philippine side

4-1-2-1 Assignment of counterpart personnel and administrative staff

A total of forty-five (45) Philippine counterpart personnel were assigned to the Project as listed in ANNEX 5.

4-1-2-2 Allocation of current expenses for the Project

The Government of the Republic of the Philippines allocated expenses for training, travel, fuel, electricity, water, communication (telephone, fax, etc.), transportation, maintenance, freight, and insurance of equipment as indicated in ANNEX 4.

4-1-2-3 Provision of land, buildings and other necessary facilities

The Government of the Republic of the Philippines provided land, buildings and facilities required for the Project.

4-2 PROJECT ACTIVITIES AND ACCOMPLISHMENTS

4-2-1 Improvement of methods of analysis of pesticide residue

Familiarization in operating analytical instruments was accomplished. The understanding on the importance of clean up procedures to keep the performance of the analytical instruments was realized through daily experiments. Residue analytical trainings were conducted for the staff of Satellite Pesticide Analytical Laboratories (SPALs) led by National Pesticide Analytical Laboratories (NPAL) personnel.

4-2-2 Improvement of methods of analysis of pesticide formulation

Familiarization in operating analytical instruments was accomplished. Improved analytical technique was utilized for monitoring of pesticide formulations jointly planned by BPI and FPA in the cooperation of Crop Protection Association of the Philippines (CPAP). Further, the analytical capability of the group was enhanced through the analysis of samples from other sources. With the completion of the term of the dispatched Japanese expert in this field, the long-term expert in residue analysis is consulted whenever analytical problems are encountered by the Formulation Analysis Group.

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#### 4-2-3 Improvement of methods and technology on supervised pesticide residue trials in crops

Nine (9) field trials consisting of six (6) crop and five (5) pesticide combinations were conducted at Los Banos National Crop Research Development Center (LBNCRDC) and National Crop Protection Center (NCPC). These trials were conducted in order to develop local capability in conducting supervised pesticide residue trials (SPRT) in crops. Analytical methods for target pesticides were also validated. Three seminars and one field-workshop were conducted mainly for the personnel of SPAL. Preparation of SPRT manual has started. This will be utilized as a reference for conducting SPRT.

#### 4-2-4 Improvement of methods and technology of market basket research

Preliminary studies such as reference survey presented in the foreign scientific journals as well as reconsideration of present residue monitoring method adopted by BPI were carried out. The title "Market Basket Research" as written in the present R/D was clarified during the discussion to mean dietary intake studies. This definition is inconsistent with the objective to generate the residue profile for agricultural crops produced in this country. Therefore the title "Market Basket Research" should be interpreted as "residue monitoring" as suggested in the letter addressed to the Project Director from Leader of the Management Consultation Team on March 19, 1999. New residue monitoring plan is currently being prepared, and method validation for several crop-pesticide combinations has started.

#### 4-2-5 Provision of necessary information for establishing MRLs and the Pesticide Safe Use Direction

Literature review on MRL from other countries was carried out. The food consumption data of the Food and Nutrition Research Institute (FNRI) was reviewed to calculate the Theoretical Maximum Daily Intake (TMDI). The updating of data base on pesticide registration is being conducted.

#### 4-2-6 Provision of necessary information for safe handling and proper use of pesticides

Information materials prepared by FPA and other concerned agencies such as the Agricultural Training Institute (ATI), NCPC, and Philippine Rice Research Institute (PhilRice) for safe handling and proper use of pesticides were gathered and reviewed.

A survey was performed on selected pesticide distributors, retailers and farmers in order to get a general knowledge and levels of understanding on safe handling and proper use of pesticide in cooperation with Regional and Field Officers of FPA.

Pesticide safe use trainings were carried out for Municipal Agricultural Officer (MAO) at several sites on the topics of general pesticide information, safe handling and proper use of pesticide, and recognition and management of pesticide poisoning cases.

Seven issues of PMDP Bulletin were printed for the publicity of the Project as well as providing fundamental knowledge on pesticides.

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#### 4-3 PROJECT ACTIVITIES TO BE COMPLETED

##### 4-3-1 Improvement of methods of analysis of pesticide residue

Basic multi-residue analytical method for residue monitoring combined with the new clean up procedures shall be studied further. Updating of techniques is indispensable to generate reliable data of residue monitoring.

##### 4-3-2 Improvement of methods of analysis on pesticide formulation

Basic analytical methods on formulation analysis for pesticides shall be studied. Updating the techniques for the analytical methods for monitoring and service samples shall generate reliable data in formulation analysis.

##### 4-3-3 Improvement of methods and technology of supervised pesticide residue trials in crops

More trials of SPRT shall be performed in order to get additional technical knowledge for the preparation of manual of SPRT and improvement of SPRT technique. This will be utilized when BPI is asked to carry out SPRT data generation by pesticide companies. To study factors that affect pesticide residue in the field is recommended. Conducting trials according to farmers practice should also be considered. SPRT field constructed in the LBNCRDC will contribute to this objective.

##### 4-3-4 Improvement of methods and technology of market basket research

Based on the result of PCM workshop (March, 1999) and suggestion by the management consultation team leader, the title of "Market Basket Research" should be changed to Pesticide Residue Monitoring in the R/D, TSI etc. Systematic implementation of residue monitoring at both the NPAL and the SPALs should be continued.

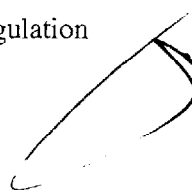
##### 4-3-5 Provision of necessary information for establishing MRLs and the Pesticide Safe Use Direction

The expected output of this category and two activities designated for this output in the R/D signed on January 29, 1997, do not definitely indicate what should be conducted to provide necessary information for establishing MRLs and the Pesticide Safe Use Direction. Specification of activities useful for safety evaluation of pesticides such as practicing evaluation methods of pesticide residue data including review of actual pesticide usage and existing data on registered pesticides. These activities may provide necessary information on pesticide residue regulation.

Expected items to be implemented are as follows,

1. Review of actual pesticide usage
2. Review of existing data on registered pesticide
3. To study evaluation methods on pesticide residue data
4. To make a recommendation on pesticide residue regulation

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#### 4-3-6 Provision of necessary information for safe handling and proper use of pesticides

Trainers' trainings such as extension workers who are directly linked to farmers are planned and implemented in cooperation with ATI. This training shall be continued to make the most of scarce resources. Collaboration with CPAP shall be promoted further.

Preparation of reference books showing the registered pesticides mentioning their usage, target pests, safety precaution items is expected by the collaboration with other groups of the Project because these materials, if there are any, will be utilized conveniently by farmers.

### 5. RECOMMENDATIONS

#### 5-1 Amendment of the R/D and TSI

The activities in the Project are basically being implemented according to the schedule. Although it is not needed to change the overall goal and the project purpose, some of the outputs and activities mentioned in R/D are not always definitely designated. In order to attain outputs of the project more efficiently, project activities should be reorganized. It is important to aggregate the basic knowledge of safety evaluation on pesticide residue through Project activities.

Japanese Advisory Team proposed to amend the R/D to combine three Outputs (Output (2), (3), (4)) for the further effective utilization of the Project and for the specification of the Activities. The Philippine side disagreed to combine the present 5 groups into 3 groups. The Team explained that the proposed amendment of the R/D to combine the Outputs does not mean combining of the groups. The Philippine side said that by combining the groups, the possibility of narrowing of the scope of the Activities of the cooperation Project would result. However, the Japanese Advisory Team perceived that combining the activities will lead to a more focused Output.

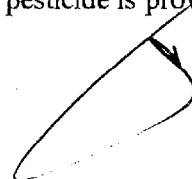
To attain this, the Team and the Philippine side agreed to continue the discussion of the proposed amendment of the R/D and TSI.

#### <Proposed amendment of the R/D>

##### 4. Outputs

- 1) The analysis method(s) of pesticide residue and pesticide formulation are improved.
- 2) The basic knowledge on MRL establishment and Pesticide Safe Use Direction on pesticide residue are improved.
- 3) The necessary information for safe handling and proper use of pesticide is provided to agencies concerned.

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## 5. Activities

- 1)-1 To introduce improved method(s) to analyze pesticide residue
- 1)-2 To introduce more appropriate method(s) to analyze pesticide formulation
- 1)-3 To integrate method(s) and update manual(s) on pesticide residue analysis
- 1)-4 To integrate method(s) and update manual(s) on pesticide formulation analysis
- 2)-1 To introduce appropriate pesticide residue trial methods
- 2)-2 To introduce appropriate pesticide residue monitoring methods
- 2)-3 To introduce appropriate safety evaluation methods on pesticide residue
- 3)-1 To design training program on safe handling and proper use of pesticides
- 3)-2 To prepare manual(s) to disseminate for the dealers and users on safe handling and proper use of pesticide

### 5-2 Supervised Pesticide Residue Trial

A field for supervised pesticide residue trial in the LBNCRDC was completed on August 11, 1999 through model infrastructure improvement work by JICA. The Japanese side would further appreciate it if the Philippine side could take care for the maintenance of this facility including budget allocation.

### 5-3 Budget

The Japanese side appreciated the efforts exerted by the Philippine side for the allocation of the Project budget. It would be further appreciated by the Japanese side if the Philippine side would make more efforts to have the budget disbursed in a timely manner and secure enough budget for the operation and maintenance of facilities.

### 5-4 Counterparts

It would be further appreciated by the Japanese side if the Philippine side could give constant consideration for appropriate disposition of the staff and conversion of contractual or casual positions into permanent ones to enhance the sustainability of the Project.

### 5-5 Machinery and Equipment

Machinery and equipment provided by the Japanese side have been effectively utilized. The Philippine side should continuously make the efforts to utilize and maintain them properly.

### 5-6 Coordination of BPI and FPA

The Japanese side would further appreciate if the level of effort between BPI and FPA were increased towards a sustained coordination for the achievement of the Project objectives.

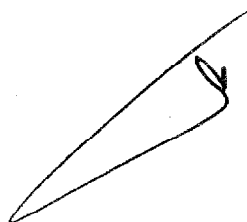
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#### 5-7 Notes on MRLs and Pesticide Safe Use Direction

Both sides reaffirmed that the statement in the R/D on the establishment of MRLs and Pesticide Safe Use Direction are not in themselves within the scope of the project. Moreover, Such activities will be the responsibility of the Government of the Philippines. Both sides, likewise, reaffirmed that the Project shall provide the scientific advise to establish MRLs and Pesticide Safe Use Direction to the responsible agency.



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# ANNEX 1. LIST OF JAPANESE EXPERTS DISPATCHED

## 1. Long-term Japanese experts

No	NAME	SPECIALITY	PERIOD
1	Hikaru KAZANO	Team Leader	3/31/1997 - 3/30/2000
2	Yasumasa OIZUMI	Project Coordinator	3/31/1997 - 5/13/1999
3	Toshio SUZUKI	Pesticide Formulation Analysis	3/31/1997 - 3/30/1999
4	Yasuo KITAMURA	Supervised Pesticide Residue Trials in Crops	3/31/1997 - 3/30/2000
5	Osami MATANO	Pesticide Residue Analysis	(6/24/1996) - 6/23/1998
6	Yoshio IZAWA	Pesticide Residue Analysis	9/ 7/1998 - 9/ 6/2000
7	Nobuhiko INOUE	Dissemination of Safe Handling and Proper Use of Pesticide	10/ 5/1998 - 10/ 4/2000
8	Naoki HASHIMOTO	Coordinator	5/ 3/1999 - 5/ 2/2001

## 2. Short-term Japanese experts

No	NAME	SPECIALITY	PERIOD
1	Akitoshi SAKURAI	Supervised Residue Field Trial	9/25/1997 - 12/24/1997
2	Yasuhide TONOGAI	Market Basket System	10/27/1997 - 1/ 6/1998
3	Koki MOTOHASHI	Supervised Pesticide Residue Field Trial	1/27/1998 - 4/26/1998
4	Nobuhiko INOUE	Dissemination of Safe Handling and Proper Use of Pesticide	4/ 2/1998 - 7/ 1/1998
5	Kimio KOMINE	Pesticide Residue Analysis	7/ 1/1998 - 9/30/1998
6	Koki MOTOHASHI	Pesticide Residue Trial	1/11/1999 - 3/27/1999
7	Masahiro OKIHASHI	Market Basket Research	3/14/1999 - 6/15/1999
8	Iwao TAKASE	Improvement of Pesticide Regulation System	3/14/1999 - 5/13/1999
9	Shigeru KOBAYASHI	Project Cycle Management	3/11/1999 - 3/23/1999

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## ANNEX 2. LIST OF PHILIPPINE COUNTERPART PERSONNEL ACCEPTED INTO JAPAN FOR TRAINING

No	NAME	SUBJECT	PERIOD
1	Ms. Maria Lourdes Mata	Pesticide Formulation Analysis	9/15/1997 - 12/14/1997
2	Ms. Rowena Cuevas Barrera	Pesticide Residue Analysis	9/15/1997 - 12/ 9/1997
3	Ms. Angela Bunoan Olegario	Establishment of Maximum Residue Limits	2/16/1998 - 3/20/1998
4	Ms. Paz B. Austria	Pesticide Monitoring	2/16/1998 - 3/20/1998
5	Ms. Cecile Almendrala Hernandez	Field Test for Pesticide Residue Analysis	9/ 6/1998 - 12/ 8/1998
6	Ms. Corazon Tiongson Bautista	Method of Dissemination for Safe Handling and Proper Use of Pesticides	9/ 6/1998 - 11/ 3/1998
7	Ms. Erlinda Macasaet Laylo	Mehtod for Inspection of Pesticide Formulation	9/ 6/1998 - 12/ 8/1998
8	Mr. German Tapia Yatco	Multi-residue Analysis of Pesticides	9/ 7/1998 - 12/15/1998
9	Mr. Alejo L. Villanueva, Jr.	The Role of Administrative Organ for Pesticide Monitoring System on the Basis of Rational and Judicious Use of Pesticide	2/28/1999 - 3/11/1999
10	Dr. Dario C. Sabularse	Information on the Individual Training Course in the Project Plannning and Management Seminar for Project Managers	3/30/1998 - 4/10/1998



## ANNEX 3. LIST OF MAJOR MACHINERY AND EQUIPMENT PROVIDED BY JAPAN

(Unit:1,000 Japanese Yen)

FY	TOTAL AMOUNT OF PRICE	MAJOR ITEMS
1997	40,000	Car(3) Columns for Gas Chromatograph Columns for High Performance Liquid Chromatograph Equipment for Solid Phase Extraction Glass Laboratory Appliances Picnometer Equipment for Supervised Pesticide Field Trial Opaque Projector Overhead Projector Mobile Amplifier Set Copy Machine Video Camera
1998	34,000	Car (2) Tailer Motor Cycle Power Sprayer Knapsack Sprayer Digital Thermo-Hygrometer Precipitation Recorder Electronic Chemical Balance Glass Laboratory Appliances Fluoride Ion Distilling Set Cyaniade Ion Distilling Set Color Printing Machine Book Binder Overhead Projector

# ANNEX 4. LIST OF SUPPLEMENTARY FUNDS TO COVER LOCAL COSTS

## 1. Japanese Inputs

(Unit:1,000 Japanese Yen)

FY	ITEM	AMOUNT	TOTAL AMOUNT
1997	1. Local Running Cost	5,400	5,400
1998	1. Local Running Cost	4,590	23,416
	2. Cost for Physical Infrastructure*	12,736	
	3. Cost for Enlightenment & Extension Activity**	6,180	
1999	1. Local Running Cost	4,545	10,455
	2. Cost for Enlightenment & Extension Activity**	5,910	

\*Construction of BPI-FPA Supervised Residue Trial Field at LBNCRDC

\*\*PMDP Training on the Safe and Judicious Use of Pesticide for the agricultural technicians of local governments and Pesticide Analysis Technical Training for Satellite PAL Personnel.

## 2. Philippine Inputs

(Unit: 1,000P)

		1997	1998	1999
Local Running Cost***	BPI-PAL	1,520	3,000	3,000
	FPA	437	3,750	5,000

\*\*\* Wages for contractual personnels, travel costs and allowances, costs of meetings and seminars, fuels, electricity, telephone, stationeries, chemical reagents for analysis, maintenance and repairs of equipment provided by Japanese side, etc. The budget for Foreign Aid Project (FAP) is shown.

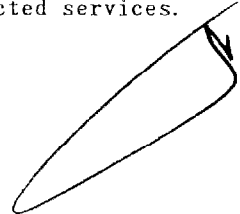
ANNEX 5. LIST OF PHILIPPINE COUNTERPARTS ASSIGNED

General Management	Project Director	<u>Domingo F. Panganiban</u> (3/1997-6/1998, 6/1999~) <u>Cristino M. Collado</u> (6/1998-6/1999)
	Deputy Project Director	<u>Gumersindo D. Lasam</u> (3/1997-6/1998) <u>E. Sana</u> (6/1998~)
	Project Manager, BPI	<u>Nerius I. Roperos</u> (3/1997-1/1999) <u>Santiago R. Obien</u> (1/1999-4/1999) <u>Conrado I. Gonzales</u> (4/1999-7/1999) <u>Blo Umpar Adiong</u> (7/1999~)
	FPA	<u>Elsa M. Bayani</u> (3/1997-6/1998) <u>Alejo L. Villanueva, Jr.</u> (7/1998~)
	Co-Project Manager, BPI	<u>Virgina TD Pacaba</u> (3/1997~)
	FPA	<u>Dario C. Sabularse</u> (3/1997~)
	Project Coordinator, BPI	<u>Paz B. Austria</u> (3/1997~)
	FPA	<u>Angela B. Olegario</u> (3/1997-1/1999) <u>Wernher M. Bautista</u> (1/1999~)
	BPI	<u>Elizabeth Ramilo</u> (3/1997~)
	(Gen. Manage. & Finance)	<u>Leonida Morales</u> (3/1997~)
	FPA	<u>Estrella T. Pineda</u> (3/1997~)
	(Gen. Manage. & Finance)	<u>Neri S. Pescadera</u> (1/1999~)
	BPI	<u>Walfredo Cinco</u> (3/1997~)
	(Secretarial & Manage.)	<u>Arlene C. Firamarino</u> (1/1998~)
	FPA	* <u>Yolanda C. Sabado</u> (9/1997~)
(Secretarial & Manage.)	* <u>Cesar V. Train</u> (1/1999~)	

Names with underlines show the CP members at present.

{Names} in the parenthesis show CP is assigned to the main group other than designated.

\*Names with asterisk show support staff in contracted services.



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Residue Analysis	BPI (Group Chief)	<u>Nimfa C. Chen</u> (3/1997~) <u>Rowena C. Barrera</u> (3/1997~) <u>German T. Yatco</u> (3/1997~) <u>Ofelia O. Bersamina</u> (3/1997~) <u>Grace G. Nifas</u> (5/1998~)
	FPA	<u>Jacqueline M. Romualdez</u> (3/1997-1/1998) <u>Bella Fe D. Carmona</u> (1/1998-1/1999) <u>Digna B. Pucan</u> (1/1999~)
Formulation Analysis	BPI (Group Chief)	<u>Esperanza DG Uy</u> (3/1997~) <u>Erlinda M. Laylo</u> (3/1997~) <u>Samuel L. Fontanilla</u> (3/1997-11/1997) <u>Alexander B. Faustino</u> (7/1997~3/1998) <u>Lilibeth B. Cariaso</u> (3/1997~) * <u>Jocelyn V. Calma</u> (3/1997~)
	FPA	<u>Bella Fe D. Carmona</u> (3/1997-6/1998, 1/1999~) <u>Perla C. Aceveda</u> (2/1998-1/1999)
SPRT	BPI (Group Chief)	<u>MA Lourdes de Mata</u> (6/1998~) <u>MA Lourdes de Mata</u> (3/1997-6/1998) <u>Nelly R. Migano</u> (3/1997~) <u>Samuel Fontanilla</u> (11/1997~)
	BPI-LBNCRDC	<u>Francisco R. Manipon</u> (11/1998~) <u>Marina K. Calingasan</u> (11/1998~)
	FPA (Group Chief)	<u>Gil L. Magsino</u> (3/1997-6/1998) <u>Cecile A. Hernandez</u> (3/1997~) <u>Wernher M. Bautista</u> (1/1999~) * <u>Nicasio Chuck G. Liwag</u> (1/1998~)
MBR	BPI (Group Chief)	<u>Paz B. Austria</u> (3/1997~) { <u>Nimfa C. Chen</u> (3/1997~)} { <u>Esperanza DG Uy</u> (3/1997~)}
	FPA	<u>Angela B. Olegario</u> (3/1997-1/1999) { <u>Aida V. Ordas</u> (1/1999~)} <u>Digna B. Pucan</u> (1/1998~1/1999) <u>MA Lourdes M. Cruz</u> (1/1999~) * <u>Lorenzo M. Fabro, Jr.</u> (10/1998~)
MRL	FPA (Group Chief) (-do-) (-do-)	<u>Angela B. Olegario</u> (3/1997-1/1998, 2/1998-6/1998) <u>Wilma N. Obcemea</u> (6/1998-1/1999) <u>Aida V. Ordas</u> (1/1998-2/1998, 1/1999~) <u>Gil L. Magsino</u> (3/1997-6/1998) <u>Wernher M. Bautista</u> (6/1998~) <u>Bella Fe D. Carmona</u> (1/1998-1/1999) <u>Digna B. Pucan</u> (1/1998~1/1999) <u>Jacqueline M. Romualdez</u> (1/1999~) * <u>Joseph A. Solangon</u> (7/1998~)
	BPI	{ <u>Paz B. Austria</u> (3/1997~)} *{ <u>Jocelyn V. Calma</u> (3/1997~)}
IDG	FPA (Group Chief) (-do-) (-do-) (-do-)	<u>Rodolfo I. Maliwat</u> (3/1997-9/1997) <u>Angela B. Olegario</u> (10/1997-6/1998) <u>Neri S. Pescadera</u> (6/1998-1/1999) <u>German S. Caccam</u> (1/1999~) <u>Corazon T. Bautista</u> (3/1997~) <u>Jacqueline M. Romualdez</u> (6/1998-1/1999) <u>Gregorio M. Arboleda Jr.</u> (1/1999~) * <u>Joan C. Guray</u> (11/1997~)
	BPI	{ <u>Samuel Fontanilla</u> (3/1997~)} <u>Ofelia O. Bersamina</u> (3/1997~3/1999)