

6. 港灣管理コース概要



**Port
Management &
Operations
Course**

30 JUN - 11 JUL 1986
SINGAPORE

• TRAINING DEPARTMENT • PORT OF SINGAPORE AUTHORITY •

COURSE PROGRAMME

Port Management & Operations Course

Jun 30 – July 11, 1986

CONTENTS

The Course	1
Programme	2
Lecturers	12
Participants	14

The Course -

Port Management & Operations

AIM : To expose participants to the principles and concepts of port management and operations with particular reference to the Port of Singapore Authority's experience.

VENUE : Conference Hall 2
11th Storey
World Trade Centre
Singapore

PSA Auditorium
12th Storey
PSA Towers
Singapore

DURATION : Two weeks (Mondays to Fridays)
Jun 30 - July 11, 1986

FOR WHOM : Senior and middle management port personnel.

Programme

Monday, 30 Jun 86

TIME	TOPIC	COURSE LEADER
0900 - 1000 hrs	Course Registration and Briefing	Training Department Officers
1000 - 1045 hrs	Group Photograph and Tea	
1045 - 1130 hrs	Multi-Vision Show at PSA Towers	Public Relations Officer
1130 - 1230 hrs	Harbour Cruise	Public Relations Officer
1230 - 1400 hrs	Welcome Lunch at World Trade Centre Club	
1400 - 1530 hrs	Role & Significance of Ports	Willie Rasiah
1530 - 1600 hrs	Tea	
1600 - 1700 hrs	Navigation & Traffic Control	Raymond Tay

Tuesday, 1 Jul 86

TIME	TOPIC	COURSE LEADER
0900 - 1030 hrs	Principles & Concepts of Port Planning	N A Coomarasamy
1030 - 1100 hrs	Tea	
1100 - 1230 hrs	Planning & Development of TPCT - A Case Study	N A Coomarasamy
1230 - 1400 hrs	Lunch Break	
1400 - 1530 hrs	Japanese Experience in Port Development	Satoshi Inoue
1530 - 1600 hrs	Tea	
1600 - 1700 hrs	Japanese Experience in Port Development	Satoshi Inoue

Wednesday, 2 Jul 86

TIME	TOPIC	COURSE LEADER
0900 - 1030 hrs	Limitations of Liabilities as a Port Operator	Arlene Oei (Mdm)
1030 - 1100 hrs	Tea	
1100 - 1230 hrs	Organisation of Port Operations	Ronald Teo
1230 - 1400 hrs	Lunch Break	
1400 - 1530 hrs	Container Ship Operations	Fong Kum Hor
1530 - 1600 hrs	Tea	
1600 - 1700 hrs	Container Yard Operations	Fong Kum Hor

Thursday, 3 Jul 86
(PSA Auditorium, 12th Storey, PSA Towers)

TIME	TOPIC	COURSE LEADER
0900 - 1030 hrs	Container Freight Station Operations	S Gunasagaran
1030 - 1100 hrs	Tea	
1100 - 1230 hrs	Visit To TPCT	S Gunasagaran
1230 - 1400 hrs	Lunch Break	
1400 - 1530 hrs	Future Prospects of Containerisation in Developing Countries	Hideki Masuda
1530 - 1600 hrs	Tea	
1600 - 1700 hrs	Future Prospects of Containerisation in Developing Countries	Hideki Masuda

Friday, 4 Jul 86
(PSA Auditorium, 12th Storey, PSA Towers)

TIME	TOPIC	COURSE LEADER
0900 - 1030 hrs	Conventional Ship Operations	Tan Choon Wei
1030 - 1100 hrs	Tea	
1100 - 1230 hrs	Organisation of Labour for Conventional Operations	Tan Choon Wei
1230 - 1400 hrs	Lunch Break	
1400 - 1530 hrs	Port Performance Indicators	Fong Kum Hor
1530 - 1600 hrs	Tea	
1600 - 1700 hrs	Role of Customs in the Port	Kwok Siew Quan

Monday, 7 Jul 86

TIME	TOPIC	COURSE LEADER
0900 - 1030 hrs	Evaluation of Container & Cargo Handling Equipment	Chan Chee Tack
1030 - 1100 hrs	Tea	
1100 - 1230 hrs	Warehousing Operations	N Gunasekar
1230 - 1400 hrs	Lunch Break	
1400 - 1530 hrs	Port Policing & Security	Leong Wai Mun
1530 - 1600 hrs	Tea	
1600 - 1700 hrs	Fire Prevention & Pollution Control Measures	B L Hendricks

Tuesday, 8 Jul 86

TIME	TOPIC	COURSE LEADER
0900 - 1030 hrs	Financial Systems in the Port	Simon Yeo
1030 - 1100 hrs	Tea	
1100 - 1230 hrs	Port Tariff Structure & Application	V Sivarajan
1230 - 1400 hrs	Lunch Break	
1400 - 1530 hrs	Computer Applications in the Port	Anthony Chia
1530 - 1600 hrs	Tea	
1600 - 1700 hrs	Marketing of Port Services	Willie Rasiah

Wednesday, 9 Jul 86

TIME	TOPIC	COURSE LEADER
0900 - 1030 hrs	Port Management Game - SINGPORT	Lee Hee Huat Fong Kum Hor K T Mathew
1030 - 1100 hrs	Tea	
1100 - 1230 hrs	Port Management Game - SINGPORT	Lee Hee Huat Fong Kum Hor K T Mathew
1230 - 1400 hrs	Lunch Break	
1400 - 1530 hrs	Port Management Game - SINGPORT	Lee Hee Huat Fong Kum Hor K T Mathew
1530 - 1600 hrs	Tea	
1600 - 1700 hrs	Port Management Game - SINGPORT	Lee Hee Huat Fong Kum Hor K T Mathew

Thursday, 10 Jul 86

TIME	TOPIC	COURSE LEADER
0900 - 1030 hrs	Port Management Game - SINGPORT	Lee Hee Huat Fong Kum Hor K T Mathew
1030 - 1100 hrs	Tea	
1100 - 1230 hrs	Port Management Game - SINGPORT	Lee Hee Huat Fong Kum Hor K T Mathew
1230 - 1400 hrs	Lunch Break	
1400 - 1530 hrs	Port Management Game - SINGPORT	Lee Hee Huat Fong Kum Hor K T Mathew
1530 - 1600 hrs	Tea	
1600 - 1700 hrs	Port Management Game - SINGPORT	Lee Hee Huat Fong Kum Hor K T Mathew

Friday, 11 Jul 86

TIME	TOPIC	COURSE LEADER
0900 - 1030 hrs	Port Management Game - SINGPORT	Lee Hee Huat Fong Kum Hor K T Mathew
1030 - 1100 hrs	Tea	
1100 - 1230 hrs	Port Management Game - SINGPORT	Lee Hee Huat Fong Kum Hor K T Mathew
1230 - 1400 hrs	Lunch Break	
1400 - 1530 hrs	Port Management Game - SINGPORT	Lee Hee Huat Fong Kum Hor K T Mathew
1530 - 1600 hrs	Tea	
1600 - 1630 hrs	Course Evaluation	
1930 - 2130 hrs	Certificate Presentation & Farewell Buffet Dinner	

Lecturers

Miss Rahmah Mahmood	Course Co-ordinator Training Department
Mr Willie Rasiah	Deputy Director(Customer Relations) Operations Directorate
Mr Raymond Tay	Controller (Marine Traffic Control) Port Master's Department
Mr N A Coomarasamy	Senior Civil Engineer Construction & Maintenance Department
Mr Satoshi Inoue	Expert from Ministry of Transport Japan
Mdm Arlene Oei	Principal Legal Officer Legal Department
Mr Ronald Teo	Deputy Traffic Manager Tanjong Pagar Container Terminal
Mr Fong Kum Hor	Senior Training Officer(Operations) Training Department
Mr S Gunasagaran	Manager (Container Freight Station) Tanjong Pagar Container Terminal
Mr Hideki Masuda	Expert from Nippon Yusen Kaisha Japan
Mr Tan Choon Wei	Deputy Traffic Manager Keppel Wharves

Mr Kwok Siew Quan	Senior Superintendent (Container Division) Customs & Excise Department Ministry of Finance Singapore
Mr Chan Chee Tack	Ex Mechanical Engineer Container Terminal Engineering Department
Mr N Gunasekar	Deputy Traffic Manager Warehousing Department
Mr Leong Wai Mun	Asst Superintendent Police Police Department
Mr B L Hendricks	Senior Fire Officer Fire Department
Mr Simon Yeo	Senior Accountant Accounts Department
Mr V Sivarajan	Finance Manager Accounts Department
Mr Anthony Chia	Assistant Director Systems Development Department
Mr Lee Hee Huat	Senior Training Officer(Managament) Training Department
Mr K T Mathew	Senior Instructor (Operations) Training Department

Participants

<u>NAME</u>	<u>DESIGNATION</u>	<u>ORGANISATION/COUNTRIES</u>
Mr Syed Farhaduddin Ahmed	Asst Secretary	Chittagong Port Authority Bangladesh
Mr Sadiq Hasan Khan	Snr Dy Director of Accounts	Bangladesh Inland Water Transport Authority
Mr Pengiran Hassan b Pg Johari/Zahari	Port Officer	Ministry of Communication Brunei Darussalam
Mr Nordin b Buyong	Port Supervisor	Ports Department, Ministry of Communication Brunei Darussalam
Mr Aung Myint	Asst Traffic Manager	Burma Ports Corporation
Mr Kyaw Tun	Asst Traffic Manager	Burma Ports Corporation
Mr Vinod Choy Chandra	Asst Wharf Manager	Fiji Ports Authority
Mr Ho King-Man	Marine Officer	Marine Department Hong Kong
Mr IR Langas Denny Siahaan	Asst Head of Planning Bureau	Department of Communication, Jakarta Indonesia
Mr Salihuddin Hj Yusof	Administrative Officer	Kelang Port Authority Malaysia
Mr Hamdan b Yusof	Snr Traffic Officer	Kelang Port Authority Malaysia
Mr Hamzah b Abdullah	Security Officer	Kelang Port Authority Malaysia

<u>NAME</u>	<u>DESIGNATION</u>	<u>ORGANISATION/COUNTRIES</u>
Mr Adnan b Abdullah	Administrative Officer	Kelang Port Authority Malaysia
Mr Dahari b Ujud	Traffic Officer	Kelang Port Authority Malaysia
Mr I M Didi	Asst Director	Male' Inner Harbour Republic of Maldives
Mr Ian Brewer	Port Manager	Northland Harbour Board New Zealand
Mr Tadashi Kondo	Project Engineer	Asian Development Bank Philippines
Mr Roberto Q Abada Jr	Asst Chief Terminal Operations	Philippine Ports Authority
Mr Raul S Bernardo	Terminal Operations Officer III	Philippine Ports Authority
Mr Tan Lay Thok	Commercial Officer	Port of Singapore Authority
Mr Raymond Maebiru	Port Pilot Class II	Solomon Islands Ports Authority
Mr Tsai, Ting-Yi	Snr Port Officer	Kaohsiung Harbour Bureau Taiwan
Mr Ke, Jia-Hsiang	Snr Port Officer	Kaohsiung Harbour Bureau Taiwan

<u>NAME</u>	<u>DESIGNATION</u>	<u>ORGANISATION/COUNTRIES</u>
Mrs Tippawan Ruangkittisakul	Instructor	Prince of Songkla University Thailand
Lta Dr Atthachut Konpean	Navigator 6	Coastal Dredging & Maintenance Division, Harbour Dept of Thailand
Mr Chod Ketachat	Chief of Cargo Sector	Port Authority of Thailand

7. 港湾管理コース研修科目の範囲

COVERAGE OF PORT MANAGEMENT & OPERATIONS COURSE

30 JUNE - 11 JULY 1986

- A Role and Significance of Ports
 - * Description
 - * Purposes
 - * Functions
 - * Problems

- B Navigation and Traffic Control
 - * Regulations
 - * Anchorages
 - * Navigation
 - * Pilotage
 - * Traffic Control Stations
 - * Communication
 - * Port Information/Circulars

- C Principles and Concept of Port Planning
 - * General Concepts and Planning Objectives
 - * The Planning Process
 - * Factors Influencing Port Planning
 - * Port Planning Tools
 - * Conclusion
 - * References

- D Planning & Development of TPCT - A Case Study
 - * Planning & Development
 - * Requirements for a Port
 - * Requirements for a Container Port
 - * Layout of Container Wharves
 - * Container Wharf Design
 - * Basic Dimensions
 - * Infrastructure
 - * Services
 - * Construction
 - * Planning
 - * Contracts for the Project
 - * Site Investigation
 - * Reclamation
 - * Dredging
 - * Wharf Design
 - * Wharf Construction
 - * Phase II Development

- E Japan's Experience in Port Development
 - * Geographical & Socioeconomic Backgrounds
 - * Development of Japanese Ports
 - * Port Development System of Japan
 - * Impacts of Port Development

- F Limitations of Liabilities as a Port Operator
- * The Singapore Port Regulations, 1977
 - * Port of Singapore Authority Act
 - * Merchant Shipping Act
- G Organisation of Port Operations
- * Operations
 - * Keppel Wharves
 - * Marina Wharves
 - * Tanjong Pagar Container Terminal
 - * Jurong Port
 - * Sembawang Wharves
 - * Pasir Panjang Wharves
 - * Warehousing
- H Container Ship Operations
- * Shiplside Operation
 - * Before a Vessel's Arrival
 - * Berth, Manpower & Equipment Allocation
 - * Vessel Alongside
 - * Control System
 - * Performance Review
- I Container Yard Operations
- * Yard Operation
 - * Yard Plan
 - * The Yard Planning Process
 - * Study and Research
 - * General Allocation of export and import blocks
 - * Export Yard Planning
 - * Preparation for shipment
 - * Import Yard Planning
 - * Stacking Methods
 - * Transtainer Yard Stacking Techniques
 - * The Yard Operation
- J Container Freight Station Operations
- * Import - Main Features
 - * Flow Chart of Unpacking Operation (Import)
 - * Export Cargo - Main Features
 - * Flow Chart of Export Procedures (LCL Containerised Cargo)
- K Future Prospects of Containerisation in Developing Countries
- * General Observation on World Container Fleet
 - * General Observation on World Container Service Routes
 - * Operational Results of Major Container Shipping Lines

- L Conventional Ship Operations
- * Dry Cargo Vessels
 - * Planning & Preparation Prior to Vessel's Arrival
 - * Making Space in Transit Godown and Hardstanding
 - * Planning the Godown and Hardstanding to Store Cargo
 - * Planning Storage inside the Godown
 - * Planning Storage at the Hardstanding
 - * Planning and Preparation prior to loader's arrival
 - * Discharger/Loader
 - * Combo Vessels
 - * Roll-on & Roll-off Vessels (Car Carriers)
 - * Passenger Vessels
 - * Passenger-cum-Vessels
 - * Lighters and Barges
 - * Bulk Carriers
 - * Tankers
 - * Machines
 - * Cargo Handling Gear & Aids Requirements
 - * Planning and Deployment of man and machine when a vessel comes alongside
- M Organisation of Labour for Conventional Operations
- * Service Scheme
 - * Centralised Allocation System
 - * Deployment of Gangs at Work
- N Port Performance Indicators
- * Indicators of Output
 - * Indicators of Service
 - * Indicators of Utilisation
 - * Indicators of Productivity
- O The Role of Customs in the Port
- * Cargo clearance
 - * Procedures for Clearance of Import Containers
 - * Documentation Advance Customs Clearance
 - * FCL Containers
 - * LCL Containers
 - * LCL Class II Containers
 - * Transit Containers
 - * Export Containers
 - * Procedures for the clearance of Conventional Cargo
 - * Customs Operations within the Free Trade Zones
 - * Prior Customs Permission
 - * Prescribed Goods not Allowed Storage in the FTZ

- P Evaluation of Container & Cargo Handling Equipment
- * Procurement
 - * Calling the Tender
 - * Tender Evaluation
 - * Recommendation of Award
 - * Maintenance Requirements
- Q Warehousing Operations
- * The role of warehousing and stores in business and organisation
 - * Common business problems arising from need for storage space
 - * Storage layout
 - * Storage Methods and their use
 - * Ways and means to increase storage capacity
 - * Providing Proper Storage Equipment
 - * Improving of Handling Equipment
 - * Adapting the Correct Storage Methods
 - * Good Warehouse Layout Plan
 - * Material Handling Equipment
 - * Automation in Warehouse
- R Port Policing & Security
- * Brief History of the PSA Police Force
 - * Security Measures
 - * Investigation of Cargo Losses
- S Fire Prevention and Oil Spill Control Operations
- * Fire Prevention
 - * Housekeeping
 - * Stacking of Cargo
 - * Fire Fighting Equipment
 - * Action on Locating a fire
 - * Causes of Fire
 - * Physical Effects of Spilled Oil
 - * Chemical Effects of Spilled Oil
 - * Biological Effects of Spilled Oil
 - * Behaviour of Spilled Oil
 - * Spreading of Oil
 - * Movement of Oil on Open Water
 - * Predicting the movement of oil
 - * Changes in spilled oil
 - * Techniques and Equipment for handling oil spills
 - * Methods of Oil Containment
 - * Methods of Oil Removal
 - * Methods of Treatment
 - * Legislation and Enforcement
 - * Preventive Measures
 - * Enforcement

- T Financial Systems in the Port
- * Tariff Review
 - * Recovery Rates
 - * Capital Investment & Rate of Return
 - * Other Financial Studies
 - * Port Evaluation Studies
 - * Investment Analysis
- U Port Tariff Structure & Application
- * Objectives of Tariffs
 - * Moderating Factors
 - * Charging Bases
 - * Composite Port Dues
 - * Pilotage Professional Fees
 - * Dockage
 - * Stevedorage
 - * Wharf Handling
 - * Removal
 - * Store Rent
 - * Container Box Rates
- V Computer Applications in the Port
- * Environment
 - * Computerisation
 - * The Role of IS Division
 - * The Role of User Divisions
 - * Why Computers are used in our Port
 - * How Computers are used in our Port
- W Marketing of Port Services
- * Rationale
 - * Definition
 - * Objectives
 - * Strategies
 - * Organisation
- X Port Management Game

116/COVER1 COVER5

Ⅱ タイ・口蹄疫防疫第三国研修

1. Minutes of Discussions
2. 企画委員会・実施運営部・各セッション座長及び講師リスト
3. 教材リスト
4. 研修員リスト
5. JICAクエスチョネア
6. DLDエバリュエーション要約

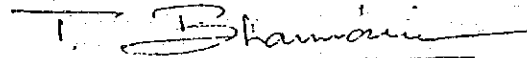
MINUTES OF DISCUSSION BETWEEN THE JAPANESE EVALUATION TEAM AND THE
AUTHORITIES CONCERNED OF THE GOVERNMENT OF THAILAND
ON THE THIRD COUNTRY TRAINING PROGRAMME

The Japanese Evaluation Team (hereinafter referred to as "the Team") organized by Japan International Cooperation Agency (hereinafter referred to as "JICA") and headed by Mr. Mitsuo ISHIZAKI visited Thailand from July 21 to July 23, 1986 for the purpose of evaluating the training course in the field of Foot and Mouth Disease Control under the Third Country Training Programme of JICA.

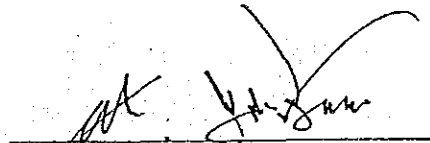
During its stay in Thailand, the Team had a series of discussions with the authorities concerned of the Thai Government with respect to the progress and achievement of the above-mentioned training course, and the outline is summarised as attached in the summary report.

As a result of the discussions, parties concerned came to the mutual understandings in the point that the intended purpose of the course has almost been achieved and thereby agreed to recommend to their respective Government to terminate the course.

Bangkok, July 24, 1986



DR. TIM BHANNASIRI
DIRECTOR-GENERAL
DEPARTMENT OF LIVESTOCK
DEVELOPMENT



MR. MITSUO ISHIZAKI
HEAD
JAPANESE EVALUATION TEAM
JAPAN INTERNATIONAL COOPERATION
AGENCY

SUMMARY REPORT

I. Background

1. Recognizing the urgent need to control and eventually eradicate the disease from the countries in Asian region, the Government of Thailand, in collaboration with the Government of Japan initiated the training course in the field of Foot and Mouth Disease (FMD) Control (hereinafter referred to as "the Course") at FMD Center under the Third Country Training Programme of JICA in the Japanese fiscal year of 1981, basing on the Record of Discussions signed by the Resident Representative of JICA in Bangkok and the Director-General of Department of Livestock Development of Thailand on November 19, 1981.
2. The Course has been conducted for the past five years since its inception upon once a year basis by the Thai Government and supported by the Japanese Government under its technical cooperation acheme.
3. The ultimate purpose of the Course is to contribute to finding solutions to the problems of the Foot-and-Mouth Disease in the Asian countries.
4. The Course was organized in the first year in the form of seminar in which the participants were invited to deliberate on general aspects and problems of FMD, technical aspects of FMD virus types diagnosis and vaccine production as well as disease control measures. They also identified the several common areas of interest and made useful recommendations which subsequently gave a direction to the technical training courses organized from the second year onward.

5. From the second year onward, the training has been given in the form of a group training course and an individual training course; in the former the participants presented their country reports and took lectures and practical training to obtain techniques applicable to the field work on FMD control. In the latter the participants took training on laboratory diagnosis and/or vaccine production at the FMD Center at Pak Chong.

Thanks to the joint effort of the personnel concerned of both Thai and Japanese sides, the courses were operated smoothly and efficiently.

II. Under the five years training courses, the Japanese Government made available eight (8) experts' services, the provision of equipment and acceptance of four (4) Thai counterpart personnel, and 85 participants were accepted into the courses, total cost of which sum up to 104 million yen. (Detail attached)

III. The assesment of the achievement

Questionnaires for the Course were dispatched by JICA to all the ex-participants and completed form were returned from 35 ex-participants. The responses provided are of great value to both donor-Japan and host-Thailand in systematically evaluating Third Country Training Programme with a view to improve the kind of cooperation under the Third Country Training Programme that will be organized in the future. Under mentioned are the results of the category wise analysis of the returned questionnaires submitted by the participants attended the courses.

i) Course contents and operations

1. Pre-Course information

83% of participants marked positive answers, however, many participants indicated in their final reports titled "Reaction of Participants to Sessions" submitted to DLD that the pre-course information should have been provided much earlier.

In this connection the officials of DLD revealed that they took every step including their direct contact with the counterpart institutions in the invited countries to expedite the application procedure, while JICA Headquarters in Tokyo also took the similar steps through its overseas offices in the invited countries.

Organizations concerned would be advised to make greater efforts to distribute the pre-course information earlier.

2. Training Period

51% of participants commented "just right", however, 37% felt that the training period was "somewhat long", while 12% felt adversely.

3. Number of Participants

With regard to the number of participants allocated to each country, 57% of participants commented as appropriate, however, 23% felt that the number was "somewhat many", while 17% commented as "somewhat few".

4. Level and Background of the other participants

Level and background of the participants appear to have been appropriate as 94% of them commented so. This was also confirmed by the officials of DLD excepting a few cases in which participants from certain countries were not engaged in the FMD control activities and therefore not relevant.

5. Curriculum Design

a) Coverage

54% of participants commented as "appropriate", while 43% of them commented as "somewhat broad".

b) Level

65% of participants commented as "appropriate", while 29% felt "somewhat advanced".

c) Time Allocation

Regarding the time allocation for lectures, discussions, practices and field trips, nearly a half of participants commented as "appropriate". However, comments were split among the participants regarding the follows points; many participants felt that the time allocation for lectures and field trips were "somewhat much", however, comments were much different range with regard to practice between those answered as "somewhat little" and those answered as "somewhat much".

6. Field Trip

Field trip appears to have been well organized and satisfactory ones as 97% of them commented so.

7. Lectures by Thai lecturers and Japanese Experts

Most of participants commented that the lectures provided by Thai lecturers and Japanese Experts were satisfactory.

8. Facilities

94% of participants felt that facilities were satisfactory and 54% of them felt that facilities were very good or excellent.

9. Textbook and other materials

68% of participants felt that the materials were satisfactory, while 32% of others felt adversely.

10. Accommodation

Most of participants commented that accommodation was satisfactory, while 12% of them felt adversely.

11. Course coordination

97% of participants felt that coordination was appropriate and 52% of them commented very good or excellent.

ii) Adaptability

1. Basic knowledge on FMD

Lectures on general feature of animal virus replication, e.g protein synthesis, genetic engineering, appears to have been poor in adaptability as many participants commented so. The above lecture was designed to introduce basic knowledge and did not intend to introduce practical application.

2. Country Reports

Participants felt that presentation of country report was very useful and applicable to their own country. This was especially so with the case of FMD situation report introduced by participants of other countries. Also highly evaluated by the participants was the report on FMD control.

3. Procedure for FMD Control

Most of the participants felt lectures in procedures for FMD control were adaptable to their countries except for the subject of antigenic variation and immune response. Basic knowledge and experience are required to have more understanding in antigenic variation and immune response.

4. Demonstration/Exclusive Study

A few participants indicated that demonstration/exclusive study on the following items was low in adaptability.

Though most participants showed interest in these items, time allocation for these items appear to have been not enough to achieve high adaptability.

iii) Fulfillment of expectation to the course

1. All the participants commented that their expectation was fulfilled and 59% of them commented completely fulfilled.

This convinced the Team that fulfillment of the expectation was satisfactory.

2. Adaptability of the course is considered to be high for the participants from 6 countries i.e Bangladesh, India, Indonesia, Pakistan, Sri Lanka and Thailand as these countries are producing FMD Vaccine on regular basis. Some other countries including Philippines and Malaysia started experimental production of Vaccine to initiate domestic production of FMD Vaccine. The participants attended from these countries mentioned that the course was beneficial. The participants from some other countries i.e Brunei, Malaysia and Korea also commented that diagnosis of FMD was beneficial since these countries are said to be initiating the quarantine service of FMD control.

IV. Others

1. The participants from such countries as Sri Lanka, India and Indonesia commented that the course proved to be beneficial for the career development of decision making veterinary officers.
2. Many participants reconfirmed the importance of relationship between veterinarians working in laboratory and those working in the field. Noteworthy is that this system was adopted to the regional training course which was organized jointly by the Government of Japan and Indonesia under the same arrangement of the Third Country Training Programme.
3. As mentioned earlier the course was organized in the first year in the form of seminar in which senior veterinary officers from invited country discussed the various problems arising from their daily work. Such arrangement proved to be very useful in confirming the direction of the training programme to be followed.

BRIEF SUMMARY OF JICA QUESTIONNAIRE

I. COURSE CONTENTS AND OPERATION

1. Pre-course information

very good	6%
good	77%
poor	11%
very poor	6%

2. Training period

just right	51%
somewhat long	37%
somewhat short	12%

3. Number of the participants

just right	57%
somewhat many	23%
too many	3%
somewhat few	17%

4. Level and background of the other participants

excellent	3%
very good	26%
good	65%
poor	6%

5. Curriculum

a) Coverage

just right	54%
somewhat broad	34%
too broad	9%
somewhat narrow	3%

b) Level

just right	65%
somewhat advanced	26%
too advanced	3%
somewhat elementary	6%

c) Time allocation

lecture:

just right	60%
somewhat much	26%
too much	3%
somewhat little	11%

discussion:

just right	57%
somewhat much	20%
too much	3%
somewhat little	20%

practice:

just right	42%
somewhat much	17%
too much	6%
somewhat little	26%
too little	9%

field trip:

just right	40%
somewhat much	37%
too much	14%
some what little	6%
too little	3%

6. Field trip	
excellent	26%
very good	34%
good	37%
poor	3%

7. Lectures by Thai lecturers	
excellent	3%
very good	31%
good	60%
poor	6%

8. Lectures by Japanese lecturers	
excellent	14%
very good	49%
good	31%
poor	6%

9. Facilities	
excellent	12%
very good	42%
good	40%
poor	3%
very poor	3%

10. Textbook and other materials	
excellent	6%
very good	20%
good	42%
poor	29%
very poor	3%

11. Accommodation

excellent	17%
very good	26%
good	45%
poor	9%
very poor	3%

12. Course coordination

excellent	3%
very good	49%
good	45%
poor	3%

II. ADAPTABILITY TO THE JOB

1. Basic knowledge on FMD

a) General feature of animal virus replication

excellent	3%
very fair	39%
fair	52%
poor	3%
very poor	3%

b) Protein synthesis

very fair	19%
fair	50%
poor	28%
very poor	3%

c) Immune mechanism

excellent	6%
very fair	32%
fair	53%
poor	6%
very poor	3%

d) Genetic engineering	
excellent	3%
very fair	21%
fair	43%
poor	24%
very poor	9%

2. Country Reports

a) FMD situation

excellent	17%
very fair	49%
fair	34%

b) Problems of FMD Control

excellent	20%
very fair	46%
fair	31%
poor	3%

3. Procedures for FMD Control

a) Characteristic of FMD

excellent	9%
very fair	34%
fair	54%
poor	3%

b) Diagnosis

excellent	9%
very fair	34%
fair	57%

c) Epidemiology	
excellent	11%
very fair	26%
fair	57%
poor	6%
d) Disease Control	
excellent	6%
very fair	42%
fair	46%
poor	6%
e) Vaccination campaign	
excellent	9%
very fair	37%
fair	51%
poor	3%
f) Vaccine production	
excellent	14%
very fair	20%
fair	54%
poor	12%
g) Vaccine quality control	
excellent	9%
very fair	33%
fair	47%
poor	11%

h) Antigenic variation and immune response

excellent	9%
very fair	27%
fair	49%
poor	12%
very poor	3%

i) National programme and organization

excellent	3%
very fair	26%
fair	62%
poor	9%

j) International cooperation

excellent	9%
very fair	34%
fair	48%
poor	6%
very poor	3%

4. Demonstration/Exclusive study

a) Clinical observation of affected animals

excellent	12%
very fair	37%
fair	31%
poor	17%
very poor	3%

b) Sampling from animals and sample transportation

excellent	12%
very fair	29%
fair	38%
poor	18%
very poor	3%

c) Laboratory diagnosis

excellent	14%
very fair	43%
fair	31%
poor	9%
very poor	3%

d) Vaccine production

excellent	6%
very fair	49%
fair	31%
poor	11%
very poor	3%

e) Vaccine quality assessment

excellent	6%
very fair	51%
fair	31%
poor	6%
very poor	6%

III. To what extent was your expectation of the course fulfilled?

completely fulfilled	12%
almost fulfilled	47%
fairly fulfilled	41%

ANNEX II

NUMBER OF PARTICIPANTS ACCEPTED TO THE COURSE

country year	Bangladesh	Burma	India	Indonesia	Korea	Malaysia	Nepal	Pakistan	Philippines	Singapore	Sri Lanka	Brunei	Hong Kong	Sub total (1)	Thailand (2)	(3) Total (1)+(2)
81	1	2	1			2		1	2	1	1			11	2	13
82			2	4		2		1	1	1	2		1	14	1	15
83	2	2	1	4	1	2	1		2		2			17	1	18
84	1	2	1	3	1	3	3	1	4	1	1	1		22	2	24
85	1			2	1		3		4		1	1		13	2	15
TOTAL	5	6	5	13	3	9	7	3	13	3	7	2	1	77	8	85

J I C A ' S C O O P E R A T I O N

Japanese Fiscal Year	Operational Cost met by the Japanese Government (thousand yen)	Lecturers		Training of Thai Counterpart Personnel in Japan	Provision of Equipment and Materials (thousand yen)
		Thailand	Japan *2		
1981	6,779	6	2	3	-
1982	13,321	20	2	4	35,971
1983	15,677	12	2	2	-
1984	19,522	23	1	2	-
1985	12,854	29	1	3	-
Total	68,153	90	8	14	35,971
Grand total	104,124				

*1 : Short Term Expert

*2 : Long Term Expert

N.B. Expenditure for the experts' services and acceptance of Thai counterpart personnel is not included in the above Grand total

LIST OF JAPAN/THAILAND EVALUATION TEAMDLD

Dr. Tim Bhannasiri	Director-General
Dr. Pinit Suphavitai	Deputy Director-General
Dr. Suthum Punya-Upapat	Director of Vet. Biologics Div.
Dr. Thinakorn Chandakaew	Chief of FMD Center
Dr. Ab Kongthon	Staff of FMD Center
Dr. Suneejit Kongthon	Staff of FMD Center
Dr. Vises Prasert	Co-ordinator
Dr. Anong Bintaviahok	Staff of Coordination

DTEC

Mr. Pracha Chaowasilp	Deputy Director-General
Miss Preeya Osatananda	Deputy Director-General
Mr. Sumathee Srisuchart	Director, External Cooperation Div. II
Mr. Manop Thang-Usaha	Chief, Thai Aid Programme Sub-division
Mr. Voravud Tomon	Technical Officer, Thai Aid Programme Sub-division

Japanese member

Mr. Mitsuo Ishizaki	Head, Administration Div., Training Affairs Department, JICA
Dr. Takashi Onodera	Chief, Laboratory of Immunology Division of Exotic Disease, National Institute of Animal Health, MAFF
Mr. Tadao Yagasaki	Deputy chief, Animal Health Division, Livestock Industry Bureau, MAFF
Mr. Makoto Kitanaka	Administration Div., Training Affairs Department, JICA
Mr. Eitaro Mitoma	JICA Thailand Office

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Dr. M. Tsunemasa	Leader of Japanese Expert Team Foot-and-Mouth Disease Vaccine Production Centre Pakchong Nakhon Ratchasima THAILAND
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	Dr. Vises Prasert
Secretary	Dr. Busanee Galviroj
	Dr. Samarm Thapwichian
	Miss Chiraphon Sunphakij

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Dr. Prateep	Pemayothin
Dr. watana	Srisongmuand
Dr. Siriwuth	Pogmontri

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Dr. Rienchai	Binthawihok
Dr. Thinakorn	Chandakaew
Dr. Samran	Thapwichian
Dr. Indhira	Kramomtong
Dr. Nonglak	Chonsindhu
Dr. Tarika	Pramoolsinsap

3. Training

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Dr. Eiji	Takahashi

4. Finance

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Mr. Manat	Khampracha

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Dr. Laddawan	Rattananakhon
Dr. Bunchong	Apiwatnakorn
Dr. Panun	Thanacharoenwatchara
Dr. Wallapa	Santivatr

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Miss. Primprrie	Wilairatanaporn
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3. 教材リスト

(1) 第1回研修コース教材リスト

1. Several Aspects of Foot-and-Mouth Disease
T. Kumagai
2. Outlook of FMD Problems in ASEAN
P. Suphavitai
3. Problems in Disease Free Area: Animal Infections Disease Control System in Japan
K. Nobuto

Country Report

4. Bangladesh
K. A. Chowdhury
5. Burma
Tha Khin and Khin Muang Sitt
6. India
S. C. Adlakha
7. Malaysia
Anwar and Aziz
8. Pakistan
A. S. Akhtar
9. Philippines
R. F. Marero and J. M. Gulinao
10. Singapore
J. G. W. Koh
11. Sri Lanka
W. W. H. S. Fernando
12. Thailand
P. Aranyakananda
13. Foot-and-Mouth Disease Epidemiology in Thailand
P. Maneeman
14. Foot-and-Mouth Disease Diagnosis
A. Kongthon
15. Foot-and-Mouth Disease Vaccine Production
P. Makarasen

16. Foot-and-Mouth Vaccine Quality Control
S. Kongthon
17. Foot-and-Mouth Disease Control in Thailand
P. Aranyakananda

(2) 第2回研修コース教材リスト

Some Aspects of Disease Control in General

1. APHCA and Food-and-Mouth Disease Control and Eradication in Asia and the Pacific.
Dr. Balbir K. Soni
2. APHCA That it is ? What it does ? How it works ?
3. Outline of Quality Control of Veterinary Biologics in Japan.
Dr. K. Kurata
4. Animal Quarantine Service in Japan.
Dr. K. Mishima
5. Epidemiology
Dr. Prachak Poomvises
6. Surveillance and Reporting.
Dr. Nisit Tungtrakanpong
7. Disease Control.
Dr. Somchai Arihakim
8. National Programme and Organization.
Dr. Pinit Suphavitai

Epidemiology and Control Measures of FMD

9. Epidemiology of FMD.
Dr. Ab Khongthon
10. FMD Control in Thailand.
Dr. Pradit Maneemann
11. Vaccination Programme for FMD Control.
Dr. Utis Musigo
12. Establishment of Disease Free Zone.
Dr. Shawat Pugsan-anosha

Technical Matters

13. Characteristics of FMD virus.
Dr. E. Takahashi
14. Diagnosis of FMD.
Dr. Ab Khongthon
15. Some Aspects of FMD Vaccine.
Dr. T. Motohashi

16. FMD Vaccine Production in Thailand.
Dr. Pichit Makarasen
17. Quality Control of FMD Vaccine.
Dr. Suneejit Khongthon
18. Application of ELISA for FMD Research.
Dr. K. Namba
19. Method of Disinfection.
Dr. Veerachart Chaicumpa

Country Reports

20. FMD in Hong Kong.
Dr. King - Shun Lo
21. Problem of FMD and Its Control in India.
Dr. J. S. Uppal
22. FMD Situation and Problem of Control in Indonesia.
Dr. Hendardi
23. FMD in Malaysia.
Dr. Abdul Aziz bin Hussin
24. FMD Situation in Pakistan and Its Control.
Dr. Saadullah Jan
25. FMD Situation in Singapore.
Dr. Hilda Loh Kwan Yeng
26. FMD in Sri Lanka.
Dr. R. Jeevasagayam
27. Epizootiology and Control Measures of FMD in Thailand.
Dr. Smarn Pipithkul

(3) 第3回研修コース教材リスト

Problems of FMD and Animal Health Situation

1. APHCA and Foot-and-Mouth Disease Control and Eradication in Asia and the Pacific
Dr. Balbir K. Soni
2. Economics of Animal Disease and Disease Control Programme
Dr. M. Sasaki
3. Animal Health Situation in Japan
Dr. Y. Shimizu
4. National Programme and Organization
Dr. Smarn Pipithkul

Epidemiology and Control Measures of FMD

5. Epidemiology
Dr. Prachak Poomvises
6. Surveillance and Reporting System
Dr. Somchai Srihakim
7. Vaccination and Vaccination Programme
Dr. Sawat Srisitthiyanont
8. FMD Control in Thailand
Dr. Pradit Maneemann
9. Buffer Zone and Disease Free Zone
Dr. Paisan Chullerk

Technical Matters

10. Characteristics of FMDV
Dr. T. Tsuda
11. Progress in Researches on Development of Foot-and-Mouth Disease Vaccines
Dr. I. Takatori
12. Vaccine and Vaccine Production
Dr. Pichit Makarasen
13. Quality Control of FMD Vaccine
Dr. Suneejit Kongthon
14. Diagnosis
Dr. Busanee Chanprasert

15. Factors Affecting Field Performance of Foot and Mouth Disease Vaccine
Dr. Ab Kongthon
16. Vaccine and Control
Dr. Sala Kongsmak

Country Reports

17. Epizootiology and Control of Foot and Mouth Disease in Bangladesh
Md. K. A. Chowdhury
18. Present Situation of Foot-and-Mouth Disease in Burma
Dr. K. K. Gyi
19. Epidemiology and Control Foot and Mouth Disease of India
Dr. S. C. Mathur
20. Epizootiological Aspect of F. M. D. in East Java Indonesia
Dr. L. Hakim
21. Foot and Mouth Disease Surveillance and Control Programme in Indonesia (East Java Case)
Dr. L. Hakim
22. Epidemiology and Control of Foot and Mouth Disease in Korea
Dr. B. K. Park
23. Foot and Mouth Disease Situation in Peninsula Malaysia
Dr. M. B. Awang
24. Foot and Mouth Disease in Nepal
Dr. K. N. Upadhyaya
25. The Epizootiology and Control of FMD in the Philippine
Dr. F. M. Jr. Mago
26. Foot and Mouth Disease in Sri Lanka
Dr. A. Navaratnarajah
27. Foot and Mouth Disease in Thailand
Dr. S. Muangcharoen

(4) 第4回研修コース教材リスト

Problems of FMD and Animal Health Situation

1. Global Situation and Outlook of FMD Problems in Asia
Dr. Balbir K. Soni
2. National Programme and Organization
Dr. Smarn Pipithkul

Epidemiology and Control Measures of FMD

3. The Present Status of FMD Free Zone in the Region
Dr. M. Sasaki
4. Epidemiology and Surveillance System
Dr. Kiti Srisuparp
5. Disease Control
Dr. Utis Musigo
6. Vaccination and Vaccination Programme
Dr. Sawat Srisitthyanont
7. Disease Free Zones
Dr. Kukiet Suwanlak

Technical Matters

8. Ibaraki Disease and Related Diseases Resembling FMD
Dr. Y. Inaba
9. General Feature of Animal Virus Replication
Dr. Pantipa Sinarachatanant
10. Immunology of Virus Infection
Dr. Sevanat Tharavaniij
11. Diagnosis
Dr. Ab Kongthon
12. Immunoprophylaxis of FMD
Dr. Kiti Srisupar!
13. Characteristic of FMD
Dr. Somjai Kamolsiripichaiporn
14. Genetic Engineering
Dr. Sakol Punyim
15. Vaccine Production
Dr. Payont Sinsuwongwat

16. Vaccine Quality Control
Dr. Suneejit Kongthon

Country Reports

17. Foot & Mouth Disease in Bangladesh
Dr. A. F. M. R. Hassan
18. FMD Situation in Brunei Darussalam
Dr. A. B. H. Bagol
19. Foot and Mouth Disease in Burma
Dr. W. Maung
20. The Situation and Control Programme of FMD in Java Island 1983 - 1985
Dr. D. Kusdriana
21. Foot and Mouth Disease Situation in India
Dr. G. K. Bordolai
22. Epidemiology and Control of Foot and Mouth Disease in Korea
Dr. C. H. Kweon
23. Foot and Mouth Disease (FMD) and Control Measures in Malaysia
Dr. S. Suparamanium
24. Foot and Mouth Disease Situation and Control Problems in Nepal
Dr. U. Mishra
25. FMD Control in Pakistan
Dr. G. Shabbir
26. Foot and Mouth Disease in The Philippines
Dr. R. A. Camba
27. Foot and Mouth Disease Situation in Singapore
Dr. Ng. F. Kheong
28. Foot and Mouth Disease in Thailand
Dr. U. Nusigo
29. Antigenic Properties of FMD Virus Strains Isolated Between
1980 - 1984 in South East Asia
Dr. M. Lombard

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Malaysia	
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Dr. Upendra Mishra Chief of Central Diagnostic Laboratory	Animal Health Division, Tripureshor, Katmandu, Nepal
Pakistan	
Major Dr. Ghulam Shabbir	Army Veterinary School, Remount Depot. Saragodha, Pakistan.
Philippines	
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(5) 第5回研修コース(60年度)研修員リスト

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5. J I C A ク エ ス チ ョ ネ ア

QUESTIONNAIRE

Questionnaire to be filled up by Ex-participants in the Third Country Training Program on Foot and Mouth Disease Control

Please reply the following questions. Your frank opinions and suggestions would be appreciated.

1. Your name (Please underline your surname.)

2. The year when you participated in the course

3. Your occupation career after the course

Duration of service	Position	Organization
-		
-		
-		
-present		

4. Please put a mark() in each items below.

4-1 Course contents and operation

1*:very poor (too elementary,too short,etc.)

2*:poor (elementary,short,little,etc.)

3*:good (just right,reasonable,etc.)

4*:very good (advanced,long,convenient,etc.)

5*:excellent (too advanced,too long,etc.)

#	Item	1*	2*	3*	4*	5*
1	Pre-course information					
2	Training period					
3	Number of the participants					
4	Level and background of the other participants					
5	Curriculum (Organization of the course)					
	a. Coverage					
	b. Level					
	c. Time allocation					
	lecture					
	discussion					
	practice					
	field trip					

6	Field trip					
7	lectures by Thai lecturers					
8	lectures by Japanese experts					
9	facilitiiese					
10	Textbook and other materials					
11	Accommodation					
12	Course coordination					

4-2 Adaptability to your job

1*:very poor

2*:poor

3*:fair

4*:very fair


5*:excellent

#	Item	1	2	3	4	5
1	Basic knowledge on FMD					
	a. General feature of animal virus replication					
	b. Protein synthesis					
	c. Immune mechanism					
	d. Genetic engineering					
2	Country reports					
	a. FMD situation					

	b. Problems of FMD control				
3	Procedures for FMD control				
	a. Characteristic of FMD				
	b. Diagnosis				
	c. Epidemiology				
	d. Disease control				
	e. Vaccination campaign				
	f. Vaccine production				
	g. Vaccine quality control				
	h. Antigenic variation and immune response				
	i. National programme and organization				
	j. International cooperation				
4	Demonstration/Exclusive study				
	a. Clinical observation of affected animals				
	b. Sampling from animals and sample transportation				
	c. Laboratory diagnosis				
	d. Vaccine production				
	e. Vaccine quality assessment				

5. To what extent was your expectation of the course fulfilled?

1 2 3 4 5



not

completely

fulfilled

fulfilled

6. Kindly describe your achievement of the course and how they help your job.

Thank you.

6. DLDエバリュエーション要約

Conclusion of Evaluation and Comment from participants of the Third Country Training Programme on FMD Control from November 15, 1982 to April 3, 1983.

1. Most of participants enjoyed to learn each subject very much but there were only few ones who had a little enjoyment. However, most of them stated that they will be able to apply the knowledge to their own job in their own countries in future.
2. Course periods:
Period of Individual Training Course (I.T.C.) some have no any comment but most of them said that it is satisfactory.
Period of Group Training Course (G.T.C.), there are a few participants felt too short but most of them felt satisfactory.
3. Field trip
Average degree of enjoyment, relevance to the courses, organization of the courses quality of visual aids, hotel accommodation transportation and communication are good but some participant stated that telephone was not good enough.
4. All participants prefer to have both (ITC and GTC) courses.
5. Many participants recommended that next year programme should arrange two participants for ITC and another two participants for GTC.
6. The appropriate field of participants:- For ITC participants should have aptitude research while for the GTC participants should be veterinarians in livestock disease control with at least 3 years experience.
7. Period of the courses:
For ITC, most of them recommended that it should be at least 4 months, starting on September.

Most of participants prefer to proceed the application for 4 months. It means that the distribution of general information (G.I.) with application form is to distribute to each country in advance for 4 month before date line of acceptance.

Conclusion of
Evaluation and Comment from participants of
The Third Country Training Programme on FMD Control
From October 11, 1983 to March 9, 1984.

The assessment of reaction of all participants to the courses; Individual Training Course (ITC) and Group Training Course (GTC) concluded that their are 97.93 % of enjoyment in whole session, 70 % of very much enjoyment, 2.03 % of a little enjoyment. But there is no any one who did not enjoy this session. There are 91.92 % of participants who learnt in this session, 69.23 % of them learnt in this session very much. There are only 3.85 % of them learnt a little bid of this session. However there is no any one who did not learn in this session. Most of participants can apply their learn to their job in 90.27 %, 63.04 % of them are very much application. However, 7.00 % of them who can apply specific subject to their job and 2.72 % are the group of participants who cannot apply the subject knowledge to their job in their own countries.

Considerably this type of tranfer technology is accepted by almost of participants. That is the third courses arrangement are satisfactory and applicable to each country. In case of courses period; 70.49 % of them are good enough but only 29.51 % of them feel that this courses is too short. However, the satisfactory arrangement for GTC is the same period as the last year operation (21 days). For ITC., most of them stated that it is very suitable time meanwhile they requested to spend much more time in practices.

Number of participant for each course :-

They recommended that each course should be 2 participants from each country, the subject of recent advanced research should include in the training courses, and the distribution of general information to each country should distribute in 2-3 months before datedline of acception.

Conclusion of
Evaluation and Comment from
Third country Training Programme on FMD control
October 1, 1984 to March 3, 1985

1. GTC Participants would like to have two nominators from each country.
2. In next year, nominators should have graduated in Veterinary Science and should have experience in laboratory research.
3. Training should arrange during winter season (Nov - Dec) and summer season (Feb - March) for 2 times a year.
4. Allowance was quite insufficient so JICA and DTEC should provide a peridium at least 600 bahts per day and free breakfast and lunch as in 1983-1984 GTC's.
5. Japanese Government should arrange all allowance to Thai participants for whole course. Every participant should be the same condition, no any exception.
6. The programme of training should be advanced information at least 3 months.
7. The observation period at FMD vaccine production center should be extended.
8. Pregnanted women should not be allowed to join this training programme.
9. The programme of field trip is very interested but on the way back from chiengmai to Bangkok, it was spent much time on the buses, sometime some participants felt exhaust themselves. They did not have enough time for preparing their reports after arrival in Bangkok. They recommend that on the way back from Chiengmai should be flight directly to Bangkok.
10. The observation at quarantine check point, immune-belt and bordering line should be extended.
11. First trip preferred to visit Ayudthaya in a whole day.
12. This course is very interested and useful.

Conclusion of
Evaluation and Comment from participants of
The Third Country Training Programme on FMD Control
from October 16, 1985 to March 16, 1986

1. All of participants enjoined, learnt and interested in whole programme of the courses (ITC and GTC)
2. All of participants commented that they will be able to apply their short knowledge to their own job in their countries.
3. Course period of ITC, some of them commented that it is too short. Because some technique such as FAT, ELIZA and SRID and Electrophoresis techniques have not trained them yet. And others was not any commence.
4. Course period of GTC, most of them commented that it is too short. Due to the programme was too rushed.
5. Field trip, most of them have a good degree of enjoyment, relevance to to courses quality of visual aids and good organization.
6. In case of sharing some knowledge and experience of all participants, one hundred percents of them need continuation of the courses (ITC>C).
7. Some participants need some help from FMD Center to type or identify or diagnose the unknown sample for them by sending the sample from their own countries.
8. All of them complained that the budget allowance is not enough. It should be provided as the second year courses.

JICA