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5. PDM、POの修正案

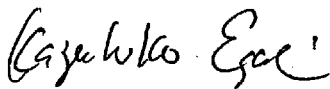
**MINUTES OF UNDERSTANDINGS
BETWEEN THE JAPANESE MID-TERM EVALUATION TEAM
AND
THE AUTHORITIES CONCERNED OF
THE GOVERNMENT OF THE SOCIALIST REPUBLIC OF VIETNAM
ON THE JAPANESE TECHNICAL COOPERATION FOR
THE EDUCATION AND RESEARCH CAPABILITY BUILDING PROJECT
OF HANOI AGRICULTURAL UNIVERSITY**

The Japanese Mid-term Evaluation Team (hereinafter referred to as "the Japanese Team") organized by the Japan International Cooperation Agency (hereinafter referred to as "JICA") and headed by Dr. Kazuhiko EGASHIRA, visited the Socialist Republic of Vietnam (hereinafter referred to as "Vietnam") from June 7 to June 19, 2001 for the purpose of mid-term evaluation of the Project Type Technical Cooperation for the Education and Research Capability Building Project (hereinafter referred to as "the Project") as well as discussing the major issues related to the implementation of the Project.

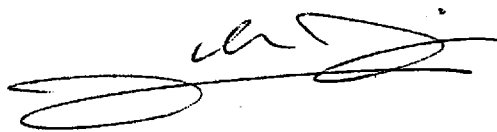
During its stay in Vietnam, the Japanese Team and the Vietnamese Team as the Joint Evaluation Team (hereinafter referred to as "the Team") conducted a mid-term evaluation on achievement of the Project by carrying out a field visit, exchanged views and held a series of discussions in respect of desirable measures to be taken by both Governments for the successful implementation of the Project.

As a result of the discussions, the Japanese Team and the Vietnamese authorities concerned agreed to recommend to their respective Governments the matters referred to in the mid-term evaluation report attached hereto.

Hanoi, June 18, 2001



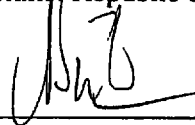
Dr. Kazuhiko EGASHIRA
Team Leader
Mid-term Evaluation Team
Japan International Cooperation Agency
Japan



Dr. Bui Cong THO
Vice Director
International Relations Department
Ministry of Education and Training(MOET)
The Socialist Republic of Vietnam



Dr. Ho Quang MINH
Deputy Director General
Foreign Economic Relations Department
Ministry of Planning and Investment(MPI)
The Socialist Republic of Vietnam



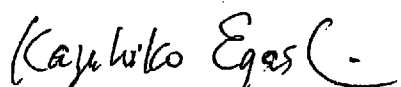
Assoc. Prof. Dr. Dang Vu BINH
Rector
Hanoi Agricultural University(HAU)
The Socialist Republic of Vietnam



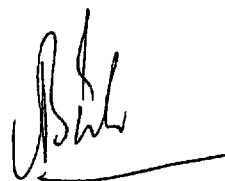
Attached Document

**THE MID-TERM EVALUATION REPORT
(OF THE JAPANESE MID-TERM EVALUATION TEAM)
FOR THE EDUCATION AND RESEARCH CAPABILITY
BUILDING PROJECT
OF
HANOI AGRICULTURAL UNIVERSITY**

Hanoi, June 18, 2001



Dr. Kazuhiko EGASHIRA
Leader
Japanese Evaluation Team



Assoc. Prof. Dr. Dang Vu BINH
Leader
Vietnamese Evaluation Team

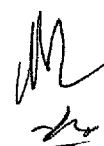


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1. INTRODUCTION

1-1 Background

In 1995, the Government of the Vietnam made a formal request to the Japanese government, for the Education and Research Capability Building Project of Hanoi Agricultural University.

In response to this request, Japanese Government dispatched a Preliminary Study Team in September 1996 in order to clarify the objectives, contents, and priorities. After that, a Long-Term Study Team was dispatched in April 1997 in order to formulate the framework of the Project. Record of Discussion was signed on June 24, 1998, and the Project started on September 1, 1998. In August 1999, the Advisory Team was dispatched and the PDM was modified and the detailed Tentative Schedule of Implementation (hereinafter referred to as "dTSI") was formulated. The Project is now close to its third year of implementation.

1-2 Purpose of the Study

The evaluation activities were performed with the following purposes:

- (1) To evaluate degree of achievement based on the Record of Discussions, Project Design Matrix (hereinafter referred to as "PDM") and Plan of Operations (hereinafter referred to as "PO") during the first half of the Project.
- (2) To review and revise the PDM and PO for the remaining cooperation term if necessary, and
- (3) To identify problems on any aspects of the Project implementation and propose necessary solutions.

1-3 Inputs for the Project

(1) Japanese Inputs

1) Dispatch of Experts

A total of 9 long-term experts and a total of 17 short-term experts have been dispatched. The list of the dispatched experts is attached in ANNEX 1.

2) Training of Vietnamese Counterparts in Japan

A total of 13 counterparts have visited Japan to participate in technical training. The list of trained counterparts is attached in ANNEX 2.

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3) Provision of Equipment

Major equipment was provided to carry out the Project activities effectively. The amount of provided equipment is attached in ANNEX 3.

4) Supplementary funds to cover local costs

The Japanese side paid a part of the Project management cost and local cost to implement the Project effectively and on schedule. The total of the supplementary funds provided by the Japanese side is attached in ANNEX 3.

(2) Vietnamese Inputs

1) Assignment of Counterparts

Vietnamese counterparts have been assigned to the Project. The list of assigned counterparts is attached in ANNEX 4.

2) Provision of Facility and Equipment

The Vietnamese side provided facilities and equipment required for the Project. The list of facility and equipment provided by the Vietnamese side is attached in ANNEX 5.

3) Allocation of Budget

Budget allocated by the Vietnamese side is attached in ANNEX 3.

2. METHOD OF THE EVALUATION

2-1 Composition of the Joint Evaluation Committee

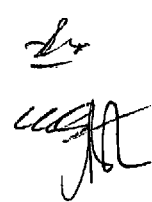
(1) Japanese members

1) Kazuhiko EGASHIRA: Team Leader / Education Planning
Professor, Faculty of Agriculture, Kyushu University

2) Izumi IWAMOTO: Research Planning
Professor, Faculty of Agriculture, Kagoshima University

3) Ayako WATANABE: Participatory Planning & Evaluation
Researcher, Regional Planning International Co., Ltd.

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4) Yuko ISHIZAWA: Planning Management

Staff, Agricultural Technical Cooperation Division, Agricultural Development
Cooperation Department, Japan International Cooperation Agency

(2) Vietnamese members

1) Ms. Nguyen Thuy Loan: Education Planning

International Relations Department, MOET

2) Mr. Nguyen Xuan Tien: Project Management

Foreign Economic Relations Department, MPI

3) Dr. Dang Vu Binh: Team Leader

Rector, HAU

4) Dr. Ha Quang Hung: Research Planning

Former Head of International Relations Office , HAU

2-2 Five Evaluation Criteria

(1) Efficiency

Productivity of the implementation process: how efficiently the various inputs are converted into outputs.

(2) Effectiveness

Effectiveness concerns the extent to which the project purpose has been achieved, or is expected to be achieved, in relation to the outputs produced by the project.

(3) Impact

Impact is intended and unintended, direct and indirect, positive and negative changes as a result of the project.

(4) Relevance

Relevance is to question whether the outputs, project purpose and overall goal are still in keeping with the priority needs and concerns at the time of evaluation.

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(5) Sustainability

Sustainability is to question whether the project benefits are likely to continue after the external aid has terminated.

3. MONITORING OF ACTIVITIES

The Team surveyed the present project management led by the Project for examining the level of achievement of project activities and finding out the problems to be solved in the course of project implementation. The result of progress of activities is indicated in ANNEX 6.

4. RESULT OF THE EVALUATION

4-1 Efficiency

4-1-1 Inputs

(1) Assignment of the Japanese experts

Assignment of the Japanese long-term experts has been carried out on schedule except that the dispatch of one expert of Agronomy was delayed by four months because of the difficulty of recruitment in Japan. Although the activities of the field of Agronomy were adversely effected, it is anticipated that both the Vietnamese side and the Japanese side are making an effort to implement activities.

(2) Assignment of counterpart staffs by the Vietnamese side

Counterpart staffs have been assigned on schedule. Because of too many lectures which have to be given not only for full-time students but for part-time and in-service students, they cannot spend much time for research activities, which leads to the adverse effect on the progress of the Project.

(3) Provision of machinery and equipment and facilities

Almost all equipment is well utilized except some equipment for which running costs or training for proper operation are required. It is expected that the Vietnamese side will allocate necessary budget for fully utilization as well as proper maintenance.

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(4) Counterpart training in Japan

Acceptance of the Vietnamese counterpart staffs for training in Japan has been carried out almost on schedule.

4-1-2 Outputs and Achievement

Although it is difficult to evaluate the degree of Output of this Project by the Indicators, those of Output 1 "Quality of research is improved" show good results of research activities. On the other hand, the progress of activities related to education (Output 2) was slow. The reasons are 1) it took time for Japanese experts to understand the educational system in Vietnam, and 2) there are some restrictions to modify the educational system. Output 3 'Facilities and equipment for training and research are properly set up, operated and maintained' is achieved to a certain degree so far, since almost all important facilities and equipment have been prepared.

Progress of Output and Project Purpose with reference to the Indicators is attached as Annex 7.

4-2 Effectiveness

To improve quality of research, 12 workshops have been held. It contributed very much to enhance the research ability of teachers in the three faculties. In addition, as a first journal of the University, Journal of Agricultural Science and Technology (HAU Journal) was edited and issued. It is a remarkable achievement in the first half of the Project. Regarding education, baseline survey has been almost finished and the preparation of syllabi will be started soon. Regarding the third output of research and educational environment, Central Laboratories, Weather Station, Computer Room, Seminar Room and Faculty Library of Economic and Rural Development, were set up and have been well utilized.

In total, the progress of the first half of the Project is almost satisfactory, but the activities related to education in the three faculties and the research activities in the field of Agronomy should be more focused in the second half of the Project to achieve the project purpose.

4-3 Impact

In the middle stage of the five-year project, some positive impact has been observed as follows;

- (1) Exchange of information/opinions has been activated among researchers within

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- (2) Some researchers have got positive intentions to transfer and apply techniques and knowledge to agricultural production through technical guidance to rural communities.

As for negative impact, nothing could be found except the increase of requests made by not only target departments but the other departments in Faculty of Agronomy and Faculty of Land and Water Resource Management.

4-4 Relevance



It is considered that the Project is relevant to the national policy as MOET sets the Education and Training Development Strategies (2001-2020), in which an emphasis is put on human resource development in the sectors including agriculture. Also shown in the Five Year Plan for Agriculture and Rural Development (2001~2005), Ministry of Agriculture and Rural Development (hereinafter referred to as "MARD") put importance of human resource development for industrialization and modernization in the sector of agriculture. The Project can be expected to support HAU to take a role to prevail new techniques and knowledge nationwide mainly through fostering highly qualified human resources who are engaged in agriculture, either as policy-makers or as technicians. Furthermore, the Project is believed to contribute indirectly in social aspects such as job creation in rural areas, which MARD recognized and mentioned in our interview.

Judged from the above, the Project can be evaluated positively about its relevance.

4-5 Sustainability

In the first half of the project period, researchers in the target three faculties have improved their research and educational capabilities, although some difference in progress could be found among the faculties. Also, the Project can obtain necessary support from the Consortium of Universities in Japan, which was organized as a supporting organization in Japan, positively resulting in smooth progress of the Project. As for institutional aspect, MOET and MARD expressed that they are prepared to make any support necessary to the Project. Regarding financial sustainability after the Project, sufficient budget allocation by the Vietnamese Government is necessary to continue research activities including experimental programmes, utilization and maintenance of the installed equipment, and contribution to human resource development in the

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agricultural sector.

5. RECOMMENDATIONS

The Team and the Vietnamese side discussed the matters related to the Project and the Team recommends the following matters.

5-1 Modifications of PDM and PO

5-1-1 Modification of Narrative Summary

Expressions of sentences in the Narrative Summary are recommended to be changed according to the principle of PDM. Since the improvement of the curriculum is under the control of MOET, the activities and the output related to curriculum should be deleted and modified.

5-1-2 Modification of Activities in Faculty of Agronomy

Due to the delay of the dispatch of a long-term expert, progress of activities related to the Faculty of Agronomy is not satisfactory in the light of the original schedule. In addition, the covering area of research field was considered to be too large. Therefore, it is recommended that each activity should be more focused.

5-1-3 Modification of Activities in the Faculty of Land and Water Resources Management

Minor modifications of research themes and the period are recommended to the Faculty of Land and Water Resources Management in consideration of specialities of experts as well as counterparts.

5-1-4 Modification of Activities in the Faculty of Economic and Rural Development

Although the activities related to the Faculty of Economic and Rural Development were planned to be finished by the end of the third year in the PO signed in August 1999, the Project proposed to extend its activities till the end of the Project. In the course of implementation of the research related to rice marketing, the research areas of Agricultural Product Processing and Finance have been found to be important in North Vietnam. To make the on-going research in the field of Marketing and Rural Development to be completed, the research for Agricultural Product Processing and Finance is requested by the Project as well as the Vietnamese side.

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The Japanese team will convey the request to the Government of Japan for further considerations.

5-2 Suggestion on modification of the plan of inputs by the Japanese side

Dispatch of a long-term expert in the field of biotechnology, in addition to one long-term expert in the field of Agronomy, is requested by the Project and the Vietnamese side to implement the activities such as rice tissue culture and rice molecular biology. The researches in these fields are important for rice breeding and new technologies for the counterparts are required. Therefore, it is explained that continuous technical transfer by the long-term experts is necessary.

The Japanese team will convey the request to the Government of Japan for further considerations.

5-3 Proposal to the plan of inputs by the Vietnamese side

To implement activities more effectively and to achieve the objectives in the end of the project period, the following matters are requested to the Vietnamese side:

- 1) Enhancement of the counterpart budget allocation to each of the three faculties
- 2) Deployment of technicians for taking care of Central Laboratories and Net Houses under construction
- 3) Taking action for chemical treatment of wastes discharged from laboratories
- 4) Designation of a responsible person or the independent section for management of Central Laboratories for the purpose of allocation of funds for reagents spare-parts, etc.
- 5) Financial support by MOET for regular issue of HAU Journal

5-4 Common understanding on certain words related to the Project

Unification of understanding of the certain words as syllabi, teaching materials, research papers, etc. are requested to the Vietnamese side for smooth implementation and monitoring of the Project.

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DISPATCH OF JAPANESE EXPERT
(as of June 2001)

Project year		Project Year 1												Project Year 2												Project Year 3												Project Year 4												Project Year 5												REMARK												
		1998												1999												2000												2001												2002													2003											
		9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8													
LONG TERM EXPERTS	Team leader	Original plan	←												←												←												←												←																							
		Kenji CHO	←												←												(1998.11.10-2001.3.9)												←												←																							
		Miyoji SUGIURA	←												(2001.2.20-2002.2.19)												←												←												←																							
	Project coordinator	Original plan	←												←												←												←												←																							
		Mikiko FUJIWARA	←												←												(1998.9.22-2000.9.21)												←												←																							
		Kazuhisa TAKAHASHI	←												(2000.9.7-2002.9.6)												←												←												←																							
Agronomy	Original plan	←												←												←												←												←																								
	Masaomi ONIKI	←												←												(2000.1.11-2001.5.10)												←												←																								
	Hidefumi SEKO	←												←												(2001.4.25-2003.4.24)												←												←																								
Land & water resources management	on planning	←												←												←												(2002.1.15-2003.8.31:tentative)												←												←												
	Original plan	←												←												←												←												←																								
	Kiyoshi Kurosawa	←												←												(1999.3.2-2001.3.1)												←												←																								
Economics & rural development	Yuichi SAEKI	←												←												(2001.2.20-2002.2.19)												←												←																								
	on recruiting	←												←												←												(2002.2.1-2003.8.31:tentative)												←												←												
	Original plan	←												←												←												←												←																								
Kazunari TSUJI	←												←												←												←												(1999.1.9-2002.1.7)												←													

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Project year		Project Year 1				Project Year 2				Project Year 3				Project Year 4				Project Year 5				REMARK													
		Year												Month																					
Title	Name	1998			1999			2000			2001			2002			2003																		
		9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2		3	4	5	6	7	8	9	10	11	12	1	2	3	4	5
Japanese fiscal year (JFY)		JFY 1998			JFY 1999			JFY 2000			JFY 2001			JFY 2002			JFY 2003			Subtotal															
J A P A N E S E S I D E	Budget for project activity	\$30,142			\$81,577			\$88,683			\$60,780									\$261,182															
	Construction of experiment garden	\$0			\$0			\$231,380			\$0									\$231,380															
	Provision of equipment	\$473,858			\$734,037			\$236,888			\$220,000									\$1,664,783															
	Total	\$504,000			\$815,614			\$556,951			\$280,780									\$2,157,345															
Vietnamese fiscal year (VfY)		VfY1998			VfY1999			VfY2000			VfY2001			VfY2002			VfY2003																		
O P E R A T I O N V I E T N A M E S E S I D E	University expenditure for the Project										from Jan.2001 to May 2001																								
	source: MOET	\$357			\$11,548			\$4,789			\$2,336									Expenditure results for HAU-JICA PROJECT: Wages/salary of university teachers is not included.															
	source: Univ. budget (school fee)	\$664			\$25,175			\$3,975			\$851																								
	source: Budget from other sources	nil			nil			nil			nil																								
	Grand total	\$1,021			\$36,723			\$8,764			\$3,187																								
	Faculty of Agronomy										from Jan.2001 to May 2001									VfY2000 expenditure from MOET covers construction of new building (4,300,000,000VND)															
	source: MOET	-			\$1,401			\$301,047			\$369																								
	source: Univ. budget (school fee)	-			\$3,294			\$11,270			\$435																								
	source: Budget from other sources	-			no information			no information			no information																								
	Total				\$4,695			\$312,317			\$804																								
	Faculty of Land & Water Management										from Jan.2001 to May 2001																								
	source: MOET	-			\$2,098			\$618			\$164																								
	source: Univ. budget (school fee)	-			\$2,088			\$5,536			no information																								
	source: Budget from other sources	-			no information			no information			no information																								
	Total				\$4,186			\$6,154			\$164																								
	Faculty of Economics & Rural Dev.										from Jan.2001 to May 2001																								
source: MOET	-			\$33			-			-																									
source: Univ. budget (school fee)	-			\$961			\$112			\$75																									
source: Budget from other sources	-			no information			no information			no information																									
Total				\$994			\$112			\$75																									
Exchange rate US\$=		14,000			VND 14,300			VND 14,400			VND 14,600																								

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LIST OF COUNTERPARTS

No	FACULTY	NAME	TITLE	DEGREE	SEX	C/P training	Special assignment
1	ADMI	Dang Vu Binh	Rector	Dr.	M		
2	ADMI	Phan Quynh Son	Vice rector	Dr.	M		
3	ADMI	Nguyen Huu Ngoan	Vice rector	Dr.	M		
4	ADMI	Nguyen Van Muon	Vice rector	Dr.	M		
5	ADMI	Tran Duc Vien	Head, IRL	Dr.	M		
6	ADMI	Quyên Dinh Ha	Head, FIN	Dr.	M		
7	ADMI	Bui Huu Doan	Head, ADM	Dr.	M		
8	ADMI	Buy Duy Son	Head, CON	-	M		
9	ADMI	Duong Manh Duc	Deputy head, ADM	-	M		
1	AGR	Nguyen Van Dinh	Dean	Dr.	M		
2	AGR	Nguyen The Hung	Vice dean	Dr.	M	scheduled	
3	AGR	Tran Dinh Chien	Vice dean	Dr.	M	settled	
4	AGR	Phan Huu Ton	Former vice dean	Dr.	M		
5	AGR	Dang Thi Dung		Dr.	F	settled	
6	AGR	Nguyen Van Hoan	Head of department	Dr.	M	settled	
7	AGR	Doan van Diem	Deputy department head	Dr.	M		
8	AGR	Pham Thi Minh Phuong		Dr.	F		
9	AGR	Ha Quang Hung	Head of department, Former head of IRL	Dr.	M	scheduled	
10	AGR	Nguyen Van Vien		Dr.	M		
11	AGR	Nguyen Kim Van	Head of department	Dr.	M		
12	AGR	Tran Danh Thin		Dr.	M		
13	AGR	Nguyen The Con		Dr.	M		
14	AGR	Nguyen Kim Thanh		Dr.	F		
15	AGR	Ho Huu An		Dr.	M		
16	AGR	Nguyen Thi Bich Yen		MSc.	F	settled	
17	AGR	Pham Van Cuong		MSc.	M		
18	AGR	Ho Thu Giang		MSc.	M		
19	AGR	Bui Trong Thuy		-	M		
20	AGR	Le Xuan Thien		-	M		

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LIST OF COUNTERPARTS

No.	FACULTY	NAME	TITLE	DEGREE	SEX	C/P training	Special assignment
1	LWRM	Nguyen Thi Vong	Dean	Dr.	F		
2	LWRM	Nguyen Xuan Thanh	Vice dean	Dr.	M		
3	LWRM	Nguyen Tat Canh	Vice dean	Dr.	M		
4	LWRM	Pham Ngoc Thuy	Dear of GF	Dr.	M	scheduled	
5	LWRM	Nguyen Dinh Manh	Former vice dean	Dr.	M		
7	LWRM	Dao Chau Thu		Dr.	F		
8	LWRM	Dinh Van Hung	Head of department	Dr.	M		
9	LWRM	Nguyen Huu Thanh		Dr.	M	settled	LAB controller
10	LWRM	Nguyen Van Dung		Dr.	M		
11	LWRM	Do Nguyen Hai		Dr.	M	ongoing	
12	LWRM	Le Thi Bich Dao		MSc.	F		
13	LWRM	Do Van Nha		MSc.	M		
14	LWRM	Trinh Quang Huy		MSc.	M		LAB controller
15	LWRM	Nguyen Thi Minh		-	F	scheduled	

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LIST OF COUNTERPARTS

No	FACULTY	NAME	TITLE	DEGREE	SEX	C/P training	Special assignment
1	ERD	Pham Van Dinh	Dean	Dr.	M	settled	
2	ERD	Ngo Thi Thuan	Vice dean	Dr.	F	settled	
3	ERD	Tran Van Duc	Vice dean	Dr.	M		
4	ERD	To Dung Tien	Former Dean	Dr.	M		
5	ERD	Vu Thi Phuong Thuy		Dr.	F	scheduled	
6	ERD	Pham Van Hung		MSc.	M	settled	
7	ERD	Nguyen Trong Dac	Head of department	MSc.	M		
8	ERD	Nguyen Thi Minh Hien		MSc.	F		
9	ERD	Tran Huu Cuong		MSc.	M	settled	
10	ERD	Nguyen Tat Thang		MSc.	M	scheduled	
11	ERD	Pham Thi My Dung		Dr.	F		
12	ERD	Do Van Vien	Head of department	Dr.	M		
13	ERD	Nguyen Phuc Tho		Dr.	M		
14	ERD	Le Ngoc Huong		-	M		
15	ERD	To The Nguyen		-	M		
16	ERD	Tran Dinh Thao	Head of department	MSc.	M		
17	ERD	Le Thi Long Vi		-	F		

ADMI: Administrative staff, AGR: Faculty of Agronomy, ERD: Faculty of Economics & Rural Development, LWRM: Faculty of Land & Water Resources Management
 FIN: Finance office, IRL: International relation office, ADM: Administration office, CON: Construction office
 GF: Graduate Faculty

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Facilities and Equipment provided by the Vietnamese side

Faculty of Agronomy

Space and facilities/equipment for Central Laboratory

Furniture/Rocker, Stabilizer, Dehumidifier, Telephone

A part of fences for experiment fields (to be provided)

Faculty of Land and Water Resource Management

Space and facilities/equipment for Central Laboratory (the same as Faculty of Agronomy)

Faculty of Economic and Rural Development

Space and facilities for Computer Room and Seminar Room

Reparation of facilities of the stack room in Faculty Library

KS

KS

KS

Progress of activity (Mid-term Evaluation)

Items of activities	Progress of activity	Future plan
1. <i>Technical advice for survey planning and implementation of practical research and experimental activities conducted by academic staff of the three faculties.</i>		
1-1 Faculty of Agronomy		
1-1-1 Plant Breeding Research a. Rice, soybean and sweet potato breeding for disease resistance, grain quality and high yield potential in the Red River Delta	Focus was placed on rice, because of delay of dispatch of a long-term expert. Survey for characteristics of rice varieties adapted in the Red River Delta and in the midland and highland regions was achieved. Weather station was repaired and two annual reports were issued.	Research of rice will be carried out with the aim of breeding of disease and insect resistant rice and high-yielding rice. Annual weather report will be issued and utilized for plant breeding research.
b. Development of cropping systems for sloping highland in midland and highland regions	Information on the introduction of genetic resources to upland crops was transferred to the counterparts.	Evaluation and collection of genetic resources of rice and beans in the northern Vietnam will be carried out.
1-1-2 Plant Protection Research a. Utilization of natural enemies in integrated pest management in midland and highland regions	Workshop on the theory and techniques of Integrated Pest Management (IPM) was held.	Specimens of insects and their natural enemies will be collected for identification.
b. Application of advanced technologies of rapid disease diagnosis for tropical fruit and vegetable crops	Occurrence of disease of rice and its prevention method were surveyed in the Red River Delta. Techniques for the collection and preservation of bacteria and fungi were transferred.	Rice blast disease and bacterial leaf blight disease of rice will be surveyed in the northern Vietnam and distribution of their different races will be clarified. Fundamentals of IPM of rice will be established.
1-1-3 Biotechnology Research a. Application in vitro culture technologies to plant breeding and multiplication for rice, soybean and potato plants	Information on the biotechnology of rice and fruit tree were transferred through seminars.	Techniques of tissue culture of horticultural crops will be established and transferred.
1-2 Faculty of Land and Water Resources Management		
1-2-1 Soil and Environmental Conservation Research a. Land use for environment and prevention of pollution of soil and water -Water pollution at and around Hanoi -Soil contamination in agricultural field	Agricultural water from rivers, ponds and ground water along with waste water discharged from factories were collected in and around Hanoi city and analyzed. Based on the analysis, the water over the Vietnamese standard was indicated. Information on the soil pollution by heavy metals and its decontamination techniques were transferred to the counterparts through workshops by short-term experts.	None(Completed)
b. Physical and chemical properties and nitrogen and sulfur recycling in degraded acid sulfate soil	This item was carried out in the counterpart training in Kyushu University. Physical, chemical and mineralogical properties of degraded soils and acid sulfate soils of Vietnam were clarified. Nitrogen and sulfur recycling in those soils were not studied due to shortage of the term of the counterpart training.	None(Completed)

Items of activities	Progress of activity	Future plan
<p>1-2-2 Plant Nutrition Research a. Detection and improvement of limiting factors for crop production in problem soils</p>	<p>Techniques of hydroponics cultivation of rice have been transferred to the counterparts to study the nutrient uptake by rice.</p>	<p>Analysis of elements uptake by plant and application of hydroponic culture is planned.</p>
<p>b. Rational use of chemical fertilizers aimed at increasing crop productivity and conserving environments</p>	<p>Methods of measurement of nitrogen fixation by soybeans have been transferred to the counterparts to develop the rational application of nitrogen fertilizer.</p>	<p>Application of soybean plant as green manure will be implemented.</p>
<p>1-2-3 Water Management Research a. Soil conservation and prevention of soil erosion in upstream region of the Red River</p>	<p>Study on the soil erosion was carried out at a site set up in the upstream region of the Red River. The techniques for study of the soil erosion were transferred to the counterparts, and the results were published as a technical report.</p>	<p>Irrigation and drainage of water in the agricultural land of the Red River Delta will be studied to develop the rational water management.</p>
<p>1-3 Faculty of Economic and Rural Development</p>		
<p>1-3-1 Agricultural Marketing a. Agricultural products marketing system in the Red River Delta - Vegetable and fruits - Pork and Beef - Rice</p>	<p>Study on the marketing of vegetable, fruit and pork was carried out after the discussion on appropriate working hypothesis and the appropriate design of questionnaire in Northern Vietnam. Through field surveys and workshops, research methodology and the advanced Japanese experiences have exchanged and transferred. Two workshops have held under the title of "Agricultural products marketing in Japan and Vietnam" and "Agricultural Marketing System and Traditional Rural Industry Development". Two technical reports were issued. Rice marketing is not adequate theme to study to the situation of farm household economy in the RRD.</p>	<p>Study on the agricultural products processing is on planning.</p>
<p>1-3-2 Rural Development Research a. Land Reform Policy b. Rural Economy</p>	<p>Study on rural structure and economy was carried out under the subtitles of traditional rural handicraft industry, tea economy and the agricultural cooperative management. Setting up the appropriate hypothesis, questionnaire, data collection and research site was the key technical research points that JICA experts have transferred. Personal computers were used to analyze the survey data. Research results were presented at two workshops and three technical reports were on editing or preparing.</p>	<p>Study on the generation of agricultural product processing is on planning.</p>
<p>1-3-3 Farm Management Research a. Agricultural and Rural Planning b. Sustainable Farming System c. Farm household economy and farm income factors in rice farming in the Red River Delta</p>	<p>Commercial production in the Northern Vietnam was focused on the study of pork and tea production. Preliminary research and test questionnaire method were applied on the researches. The research result was published as a technical report. Environmental problems were raised as a topic of sustainable agriculture. On the workshop, JICA expert presented the theory and practice of the environmental economics. Proceedings of the workshop have released. Through field survey, workshop and paper writing, the advanced theory and methodology have transferred to Vietnamese counterparts.</p>	<p>Study topics of "intensification and diversification on rice" "Farm household economy in the RRD" are expected to set up.</p>

Items of activities	Progress of activity	Future plan
2-1 Guide and advise for teaching materials, syllabus, textbooks, and curriculum of Fac. of Agronomy		
2-1-1 Plant Breeding 2-1-2 Plant Protection 2-1-3 Biotechnology	Revision of curriculum and preparation of textbook were manifested to be under control of MOET in the base-line survey. Experimental programs were introduced in addition to lecture in the specified curricula.	Improvement of syllabi and teaching materials and preparation of experimental manuals will be achieved.
2-2 Guide and advise for teaching materials, syllabus, textbooks, and curriculum of Fac. of LWRM		
2-2-1 Soil and Environmental Conservation 2-2-2 Plant Nutrition 2-2-3 Water Management	Revision of curriculum and preparation of textbook were manifested to be under control of MOET in the base-line survey. Experimental programs were introduced in addition to lecture in the specified curricula.	Improvement of syllabi and teaching materials and preparation of experimental manuals will be achieved.
2-3 Guide and advise for teaching materials, syllabus, textbooks, and curriculum of Fac. of ERD		
2-3-1 Marketing 2-3-2 Rural Development 2-3-3 Farm Management	The facility implementation such as audio-video system, seminar room, overhead projectors and photocopy machine developed teaching skills of the lecturers. Reparation of the Library and provision of 620 books have improved the access to the textbooks and academic publications for students. The Library is fully utilized by students for not only reference but also preparation of graduate thesis. The Computer room was repaired and 16 computers are provided by the Project and utilized in the lectures of the faculty. Some proceedings of the workshop are used as teaching materials directly in the lectures. These proceedings are available to lease for students at the Library.	Promote to make a model of syllabus for lectures provided by the C/Ps who had an experience of C/P training in Japan
3-1 Technical guidance and advice for operation and managed system of equipment and computers		
3-1-1 Basic survey on the present facility 3-1-2 Establishment of the design for equipment installation	The necessary equipment for research and education was surveyed and the plan of procurement was prepared. The design for installation of Central Laboratories, weather Station, Computer Room, Seminar Room, Experimental Field and related facilities has been done properly.	None (Installation of equipment in the Central Laboratory, student Laboratory, computer room etc., have almost been finished.)
3-1-3 Establishment of working group on equipment	Six rules have been made and Managing Boards for the Central Laboratories, Weather Station, Computer Room and Faculty Library were established.	Two boards for management of experimental field will be established.
3-1-4 Establishment of equipment database system	The list of equipment/books/computers in each facility has been prepared and kept by the related Faculties and administrative office. The books of Library in the faculty of ERD were recorded and sorted out in index card for more convenient utilization.	None (Completed)

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Items of activities	Progress of activity	Future plan
3-1-5 Effective utilization of equipment	Both long-term and short-term experts performed short training courses for operation and utilization of equipment.	Some training sessions by short-term experts as well as C/P training are planned for the equipment which have already been provided and not used yet.
3-2 Technical guidance and advice for maintenance system		
3-2-1 Improvement of maintenance system	Management Boards has been established for 4 facilities. Management Boards for Central Laboratories have not been able to play their role properly because of insufficient personnel/budget for effective operation and proper maintenance.	The system of maintenance will be reviewed for more effective operation and sustainability.





Progress of Output and Project Purpose

Output	Objectively Verifiable Indicator	Present situation
1. Quality of research is improved	1-1 No. of workshops/seminars/training-seminars held 1-2 No. of persons attended workshops/seminars/training-seminars held 1-3 No. of proceedings of workshops/seminars/training-seminars edited and issued 1-4 No. of Master and Ph.D degrees obtained 1-5 No. of research report related to each research field of the three faculties 1-6 No. of journals edited and issued 1-7 No. of research presentation at conferences held in and out of Vietnam 1-8 No. of research report published in and out of Vietnam	<ul style="list-style-type: none"> • Eleven workshops and one joint-workshop with Can Tho university were held. • Approximately 500 persons participated in the workshops. • Twelve proceedings were published and delivered to concerned persons/institutions. • Around 20 Master and Ph.D degrees have been obtained in the target three faculties since the Project started. • According to the data provided by HAU, the number of research reports/presentations are increasing. • HAU journal was edited and published once.
2. Quality of education is improved.	2-1 No. of training teaching materials improved 2-2 No. of curriculums concerning experimental practices improved 2-3 No. of curriculums for theoretical courses improved 2-4 No. of students attended to experimental practices 2-5 Percentage of Grade A scientific reports of students	<ul style="list-style-type: none"> • The number of improved teaching materials have been increased. • Some of the proceedings of workshops have been utilized as teaching materials. • Although the curriculum is under control of MOET and cannot be modified by HAU, the experimental program is introduced in addition to lecture in the specified curricula. • Almost all the students attended to experimental practices. • According to data/presentation by HAU, the number of student who got grade A is slightly increased.
3. Facilities and equipment for training and research are properly set up, operated and maintained.	3-1 Increase of time per training and research staff to use facilities and equipment 3-2 Results of meetings of working group on equipment 3-3 Increase of utilization of installed equipment 3-4 No. of staff trained on equipment's utilization and maintenance	<ul style="list-style-type: none"> • Time of utilization per teacher as well as per equipment has not been recorded so far in the Faculties of Agronomy and Land and Water Resources Management, but they are certainly increasing. In the faculty of Economic and Rural Development, the record of utilization has been kept and the time of the utilization has been increased. • Management Boards for the Central Laboratories, Computer Room, Weather Station, and Library in the faculty of ERD were set up. • Management Board for Computer Room and in faculty of ERD hold meetings regularly and the equipment are well maintained, whereas the management boards of the other faculties are not active. • Several training for operation of equipment were held by short-term experts. • Two lecturers in the faculty of LWRM, 1 lecturer and 1 technician in the faculty of ERD were assigned for management and maintenance of equipment. • One librarian in the faculty of ERD was trained.