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# 1. 調査日程

日時	曜日	調査内容			宿泊地	
		コンサルタント	官団員			
		飯尾団員 (10/27-11/9, 14日間)	黒木団長 (10/30-11/9, 11日間)	吉田団員 (ホスニア・ヘルツェゴビナ: 10/27-10/30、 シリア: 10/31-11/9)	澤田団員 (10/31-11/8, 9日間)	
10月27日	金	19:50羽田発 (JL-1317) 21:05開空着、23:15開空発 (JL-5099)		10:40成田発 (OS052) 16:00ウイーン着、20:05ウイーン発 (OS759) 21:20サラエボ着		飯尾団員: 機中 (吉田: サラエボ)
10月28日	土	5:00ドバイ着、14:00ドバイ発 (EK-911) 15:35ダマスカス着		ホスニア・ヘルツェゴビナ国での調査 (スレブレニツァへ移動。現場視察。夜NGOと打合せ)		飯尾団員: ダマスカス (吉田: スレブレニツァ)
10月29日	日	① JICA事務所打合せ ② 農業土地改革省表敬・FVMの評価等についてヒアリング ③ ハマへ車で移動(所要2~2.5時間)		ホスニア・ヘルツェゴビナ国での調査 (現地視察)		飯尾団員: ハマ (吉田: スレブレニツァ)
10月30日	月	① FVM学部長表敬 ② FVM、CLDRの視察・インタビュー	19:50羽田発 (JL-1317) 21:05開空着、23:15開空発 (JL-5099)	ホスニア・ヘルツェゴビナ国での調査 (スレブレニツァ市長との面会、サラエボへ移動。人権難民省及びOHR表敬)		飯尾団員: ハマ 黒木団長: 機中 (吉田: サラエボ)
10月31日	火	① 卒業生並びに既卒獣医師の雇用者・クライアントのインタビュー ② ダマスカスへ車で移動	6:05ドバイ着、14:00ドバイ発 (EK-911) 15:35ダマスカス着	7:20サラエボ発 (AZ487) 9:00ミラノ着、11:00ミラノ発 (TK1874) 14:45イスタンブール着、17:10イスタンブール発 (RB442) 19:10ダマスカス着	19:50羽田発 (JL-1317) 21:05開空着、23:15開空発 (JL-5099)	黒木、吉田、飯尾: ダマスカス、 澤田団員: 機中
11月1日	水	① JICA事務所との打合せ ② 日本大使館表敬 ③ 高等教育省表敬 ④ 農業土地改革省表敬 ⑤ ホームスへ車で移動 ⑥ アル・ハース大学学長表敬 ⑦ ハマへ車で移動 ⑧ 団内打合せ			① 5:45ドバイ着、14:00ドバイ発 (EK-911) 15:35ダマスカス着 ② ハマへ車で移動(所要2~2.5時間)	ハマ
11月2日	木	① FVMとの協議 ② 第1回合同評価委員会 ③ FVM、CLDRの視察				ハマ
11月3日	金	① 牧畜民インタビュー ② 家畜衛生局地域事務所(バルミラ)インタビュー				ハマ
11月4日	土	① 獣医学部付属農場建設地視察 ② 家畜衛生局地域事務所(アルガブ)インタビュー ※吉田団員は別の技術協カプロジェクト「節水灌漑農業普及計画」のサイト(ハマ)を視察。				ハマ
11月5日	日	① 関係機関訪問・インタビュー(酪農公園、家畜衛生局地域診断センター) ② FVM・CLDRの視察(黒木、澤田)、学生インタビュー(飯尾、吉田) ③ 評価報告書作成				ハマ
11月6日	月	① 第2回合同評価委員会 ② 評価報告書の修正				ハマ
11月7日	火	① 第3回合同評価委員会 ② JCC ③ 調査団主催昼食会 ④ ダマスカスへ車で移動			16:50ダマスカス発 (EK-912) 21:40ドバイ着	黒木、吉田、飯尾: ダマスカス、 澤田団員: 機中
11月8日	水	① シリア日本大使館報告 ② JICA事務所との打合せ ③ 16:50ダマスカス発 (EK-912) 21:40ドバイ着			2:50ドバイ発 (JL-5090) 16:40開空着、18:30開空発 (JL-1316) 19:40羽田着	黒木、吉田、飯尾: 機中
11月9日	木	2:50ドバイ発 (JL-5090) 16:40開空着、18:30開空発 (JL-1316) 19:40羽田着				

(凡例) FVM: アル・ハース大学獣医学部、CLDR: 診断研究ラボラトリー

## 2. 主要面談者

所属先	氏 名	部 署
Al Baath University	Dr. Amer Fakhouri	Rector (Project Director)
	Dr. Abdul Ilah Abdou	Director of International and General Relations
	Prof. Dr. Darem Tabbaa	Dean, Faculty of Veterinary Medicine (Project Manager)
	Prof. Dr. Mohsen Katranji	Professor, Vice Dean Faculty of Veterinary Medicine
	Prof. Dr. Abdul Karim Khaled	Professor, Faculty of Veterinary Medicine
	Prof. Dr. A. Aziz Arwana	Professor, Faculty of Veterinary Medicine
	Dr. A. Karin Kalb Allouz	Assisstant Professor, Vice dean Faculty of Veterinary Medicine
	Dr. Ahmad Subuh	Assisstant Professor, Faculty of Veterinary Medicine
	Dr. Yaser Al-Omar	Lecturer, Faculty of Veterinary Medicine
	Dr. Samer Ibrahim	Lecturer, Faculty of Veterinary Medicine
	Dr. Omar Al-Ziabi	Lecturer, Faculty of Veterinary Medicine
	Dr. Abdul Jabar Chekh Suliman	Assistant Lecturer, Faculty of Veterinary Medicine
	Dr. Mohammad Amin Sabbagh	Research Assistant, Faculty of Veterinary Medicine
	Dr. MOHSEN Yaseen	Research Assistant, Faculty of Veterinary Medicine
	Dr. Mahmod Muhsen	Research Assistant, Faculty of Veterinary Medicine
	Dr. M. Mahdi Al-Shahni	Research Assistant, Faculty of Veterinary Medicine
	Dr. Omar Al-Madani	Research Assistant, Faculty of Veterinary Medicine
Students	Undergraduate 5, Diploma 5, Master's 2, PhD 1	
Ministry of Higher Education	Prof. Mohamed Najib Abdul Wahed	Deputy Minister
	Ms. Lama Najjoum	Deputy Minister's Office
Ministry of Agriculture and Agrarian Reform	Dr. George Khoury	General Director, Department of Animal Health
	Dr. M. Rubin Kassideh	Deputy General Director, Department of Animal Health
	Dr. Najem Al-Lababide	Director, Training Department, Department of Animal Health
	Dr. Msallam Al-Wattar	Head of Veterinary Laboratory, Department of Animal Health in Hama

所属先	氏 名	部 署
	Dr. Adnan Mohammed	Director, Department of Animal Health in Al Ghab
	Dr. Nasul Saleh	Director, Veterinary Service Unit in Palmyra
Syrian Veterinary Association	Dr. Hayan Al-Khald	Board Member of the Association, Professor Faculty of Veterinary Medicine
	Dr. Mohammad Al-Halbi	Chairman of Hama Branch, Lecturer Faculty of Veterinary Medicine
	獣医師	Hama Horse Riding Club 1, Veterinary Laboratory, Department of Animal Health in Hama, 6 veterinarians
General Organization for Cattle JICA 専門家	Dr. Mardas Baroudie	Director of Animal Health Dept.
	西川 洋昭	Veterinary Laboratory Diagnosis Faculty of Veterinary Medicine, Al Baath University
シニアボランティア	入谷 好一	Veterinary Virology Faculty of Veterinary Medicine, Al Baath University
在シリア日本大使館	馬場 智	二等書記官
JICA シリア事務所	長澤 一秀 玉林 洋介 船場 玲子	所長 次長 職員

3. ミニッツ

MINUTES OF MEETING  
BETWEEN THE JAPANESE TERMINAL EVALUATION TEAM  
AND THE AUTHORITIES CONCERNED OF THE GOVERNMENT OF  
SYRIAN ARAB REPUBLIC  
ON JAPANESE TECHNICAL COOPERATION  
FOR THE CAPACITY BUILDING FOR FACULTY OF VETERINARY MEDICINE,  
AL BAATH UNIVERSITY


The Japan International Cooperation Agency (hereinafter referred to as "JICA") dispatched the Japanese Terminal Evaluation Study Team on the Japanese Technical Cooperation Project for Capacity Building for Faculty of Veterinary Medicine (hereinafter referred to as "FVM"), Al Baath University headed by Mr. Hiromori KUROKI, to the Syrian Arab Republic from November 1 to November 7, 2006.


The Joint Evaluation Team (hereinafter referred to as "the Team"), which consists of four members from JICA and four members from the Syrian Arab Republic, was jointly organized for the purpose of conducting the terminal evaluation and preparation of necessary recommendations to the respective governments.

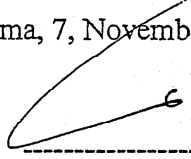
After intensive study and analysis of the activities and achievements of the Project, the Team prepared the Joint Evaluation Report (hereinafter referred to as "the Report"), which presented to the Joint Coordinating Committee (hereinafter referred to as "the Committee").

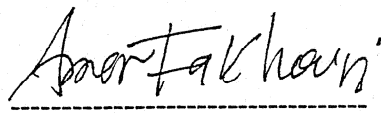
As the result of the discussions, the Committee agreed to report to their respective Governments the matters referred to in the document attached hereto.

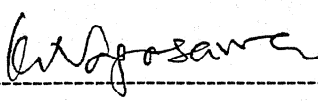
Hama, 7, November, 2006

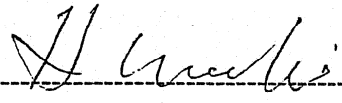
  
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Prof. Dr. Darem Tabbaa  
Dean of Faculty of Veterinary  
Medicine, Al Baath University

  
-----  
Dr. George Khouri  
Director of Animal Health  
Ministry of Agriculture and  
Agrarian Reform

  
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Dr. Hayan Khaled  
Representative of  
Syrian Veterinary Association


  
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Dr. Amer FAKHOURI  
President,  
Al Baath University

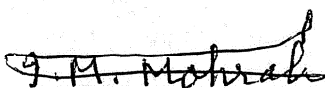
  
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Mr. Kazuhide NAGASAWA  
Resident Representative  
JICA Syria Office

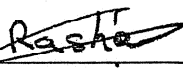
  
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Mr. Hiromori KUROKI  
Leader,  
The Terminal Evaluation Study  
Team, JICA

Joint Evaluation Report  
on  
The Capacity Building for Faculty of Veterinary  
Medicine, Al Baath University  
in  
Syrian Arab Republic

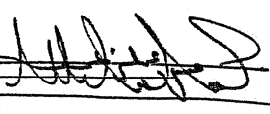
Hama, 7, November, 2006

  
Mr. Hiromori KUROKI  
Team Leader,  
Japanese Evaluation Team, JICA

  
Dr. Ibrahim MOHRAH  
Team Leader,  
Syrian Evaluation Team

  
Ms. Rasha ABDULHAI

  
Dr. Najem AL LABABIDE

  
Dr. Omar ALZIABI

Fiscal year

The Government of Japan: from April to March

The Government of Syria: form January to December

Exchange rate

US\$1.00 = 54.59 SYP (25 Oct 2006)

US\$1.00 = 119.4Yen (25 Oct 2006)

(www.oanda.com)

Abbreviations

	English
CLDR	Central Laboratory for Diagnosis and Research
EOJ	Embassy of Japan in Syria
DAC	Development Assistance Committee, OECD
DOAH	Department of Animal Health, MOAAR
FVM	Faculty of Veterinary Medicine, Al Baath University
GOC	General Organization of Cattle
JICA	Japan International Cooperation Agency
JOCV	Japan Overseas Cooperation Volunteers, JICA
O/M	Operation and Maintenance
M/M	Minutes of Meeting
MOAAR	Ministry of Agriculture and Agrarian Reform
MOHE	Ministry of Higher Education
OECD	Organization for Economic Cooperation and Development
ODA	Official Development Assistance
OM	Operation and Maintenance Manual
PO	Plan of Operation
R/D	Record of Discussion
SOP	Standard Operation Procedure
SPC	State Planning Commission
SVA	Syrian Veterinarian Association
SV	Senior Volunteer, JICA
TOR	Terms of Reference
VM	Veterinary Medicine

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The Capacity Building for Faculty of Veterinary Medicine Al Baath University  
in Syrian Arab Republic

**Joint Evaluation Report of the Terminal Evaluation**

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## 1. Introduction

### 1.1 Objective of the Evaluation Study

The evaluation of the Project was conducted with the following purposes.

- (1) To confirm the present progress and the degree of achievement of the Project, and evaluate it from the viewpoint of five criteria (Relevance, Effectiveness, Efficiency, Impact, Sustainability) proposed by the DAC at the OECD.
- (2) To discuss with Syrian authorities on problems related to the project implementation, measures for smooth management and the direction of the Project after the current Japanese cooperation.
- (3) To agree the resolution to the evaluation results compiled as a Joint Evaluation Report during the joint study by both Japanese and Syrian sides.

### 1.2 Members of the Evaluation Team

The Project was evaluated by the Japanese and Syrian Joint Evaluation Committee (hereinafter referred to as the "Committee"). The Joint Evaluation Committee was composed of four members from the Japanese side and four members from the Syrian side respectively. The members are as follows:

#### Japanese Side

No.	Name	Job title	Occupation
1	Mr. Hiromori KUROKI	Team Leader	Executive Adviser to the Director General, Institute for International Cooperation, JICA
2	Dr. Takuo SAWADA	Advisor on Animal Health	Professor, Department of Veterinary Microbiology, Nippon Veterinary and Life Science University
3	Mr. Akitoshi IIO	Evaluation Analysis	Senior Researcher, Mets Research & Planning, Inc.
4	Mr. Kazuhiro YOSHIDA	Evaluation Management	Senior Program Officer, Field Crop Based Farming Area Team II, Group II, Rural Development Department, JICA

#### Syrian Side

No.	Name	Job title	Occupation
1	Dr. Ibrahim MOHRAH	Team Leader	Professor at Faculty of Agriculture in Damascus University, Ministry of Higher Education
2	Dr. Najem AL LABABIDE	Advisor on Animal Health	Training Division- Directorate of Animal Health, Ministry of Agriculture and Agrarian Reform
3	Dr. Omar ALZIABI	Evaluation Analysis	Project Counterpart Staff, Ministry of Higher Education/ Al Baath University
4	Ms. Rasha ABDULHAI	Evaluation Management	Senior Program Officer, Field Crop Deputy Director of Planning in Hama, State Planning Commission

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### 1.3 Schedule of the Study

The schedule of the Terminal Evaluation is as follows:

Date	Day	Activities
29-Oct	Sun	Courtesy call to Ministry of Agriculture and Land Reform Move from Damascus to Hama by car
30-Oct	Mon	Courtesy call to dean of FVM Inspection of and Hearing from CLDR
31-Oct	Tue	Interview with graduates Move from Hama to Damascus by car
1-Nov	Wed	Meeting with JICA Office Courtesy call to EOJ Courtesy call to Ministry of Higher Education Courtesy call to Ministry of Agriculture and Land Reform Move from Damascus to Homs by car Courtesy call to rector of Al Baath University Move from Homs to Hama
2-Nov	Thu	Meeting with FVM 1st Joint Evaluation Committee meeting Inspection of FVM and CLDR
3-Nov	Fri	Visits to fields for interviewing with nomads Drafting of Evaluation report
4-Nov	Sat	Visits to the construction sites of field facilities attached to FVM (Teaching farm, Teaching veterinary hospital in Al-Ghab), Interview with Directorate of Animal health in Al-Ghab Investment Commission.
5-Nov	Sun	Interview with related organizations (General Organization of Cattle and Diagnosis Laboratory in Hama) Interview with students of FVM Drafting of Evaluation report
6-Nov	Mon	2nd Joint Evaluation Committee meeting Revision of Evaluation report
7-Nov	Tue	3rd Joint Evaluation Committee meeting JCC Move from Hama to Damascus by car
8-Nov	Wed	Report to EOJ Meeting with JICA Office

## 2. Outline of the Project

### 2.1 Background of the Project

In the Syrian Arab Republic, the recent high population growth rate means that increased food production should be an important development issue. The development of livestock industry is one of the major issues in agricultural development; however, in general, an extensive grazing system in a severe and dry climate may cause low productivity in Syria. In addition, animal diseases such as leukosis, paratuberculosis and brucellosis are also considered problematic, and they have impeded improvement of the production ratio. Consequently, the Syrian government has prioritized a policy to strengthen the health management of livestock, but at the production sites, it is reported that the shortage of veterinarians with technical expertise in clinical diagnosis of livestock has impeded the implementation of this policy.

Under the background mentioned above, a proposal for technical cooperation to train veterinarians at Al Baath University so that they will be fully equipped with practical experience and clinical diagnostic knowledge of domestic animals was forwarded by the Syrian government.

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## 2.2 Summary of the Project

Overall Goal: To accomplish the level up of diagnostic skills of Syrian veterinarians.

Project Purpose: Improvement and strengthening of veterinary education in Al Baath University.

Outputs:

- (1) Educational activities at FVM are enhanced and organized with effective use of equipment.
- (2) The faculty students gain a good knowledge and practical diagnostic methods.
- (3) Information and know-how on animal diseases are accumulated and used for education.
- (4) Educational system for faculty students and also re-educational programs for veterinarians are established.

Project Activities:

- (1) To train students and staff of FVM for application and operation of scientific equipment.
- (2) To improve student practices on disease diagnosis.
- (3)-1 To improve diagnostic skills of teaching and laboratory staff.
- (3)-2 To improve diagnostic skills of important animal diseases for clinical diagnosis and surveillance.
- (4)-1 To establish training programs of FVM students.
- (4)-2 To establish sustainable programs for veterinarians.

## 3. Methodology of Evaluation

### 3.1 Project Design Matrix

PDM indicates the current framework of the Project which was agreed in the Joint Coordinating Committee which was held on 22 June 2004 and it was used for analysis in this evaluation study and attached in Annex 1.

### 3.2 Method of Evaluation

The Committee visited project sites, and carried out a series of interviews and discussions with Japanese long-term expert, Syrian counterpart personnel and farmers. Evaluation analysis was made on the five evaluation criteria described below:

#### (1) Relevance

Relevance is reviewed by the validity of the Project Purpose and the Overall Goal in connection with the development policy of Syrian Arab Republic as well as the needs of beneficiaries.

#### (2) Effectiveness

Effectiveness is assessed by evaluating to what extent the Project has achieved its Purpose and clarifying the relationship between the Project Purpose and the Project Outputs.

#### (3) Efficiency

Efficiency is analysed by focusing the relationship between the Project Outputs and the Project Inputs in terms of timing, quality and quantity.

#### (4) Impact



Impact is analysed from the view point of positive or negative influence caused by implementing the Project including the extent to which the Overall Goal has been attained. It includes effects, which are not originally expected in the Project.

#### (5) Sustainability

Sustainability is assessed in organizational, financial and technical aspects, by examining the extent to which the achievements of the Project could be sustained or expanded after the completion of the Project.

In order to evaluate the Project, the following reference materials were used:

- Record of Discussions (R/D), Plan of Operation (PO), Minutes of Meetings held during the Project term
- The Documents prepared by the Project prior to the Study
- Project reports
- Results of series of interviews and observations made by the Team during its stay in Syria
- Result of analysed questionnaires

## 4. Verification of Project Performance and Implementation Process

### 4.1 Verification of Project Performance

#### (1) Conditions of Input

Both Syrian and Japanese sides contributed great efforts to implement the project. Syrian side covered the project space, counterpart personnel and running cost of the project and Japanese side dispatched a long-term expert and three short-term experts, and provided counterpart training in Japan. Outline of the Inputs is as follows:

#### Japanese Side

##### (1) Long-term experts

Laboratory Diagnosis: Dr. Hiroaki NISHIKAWA (16 Dec. 2003- 15 Dec. 2006)

##### (2) Short-term experts

Veterinary Virology: Dr. Yoshikazu IRITANI (24 Dec 2004-31Jan2005)

Veterinary Bacteriology: Dr. Tatsuro SUZUKI (23 May-6 July 2006)

PCR Technology for Disease Diagnosis: Dr. Tomoshi NAGATA (30June-29 July 2006)

##### (3) Counterpart training in Japan

Dr. Yaseen MOHSEN (Veterinary Bacteriology, 01Mar-29May2006)

Dr. Abdul Jabar CHEKH SULIMAN(Biochemistry, 22Jan-02Mar2006)

Dr. Omar AL ZIABI (Veterinary Virology, 31Jan-31Mar 2006)

Dr. Mohammad Amin SABBAGH (Ecto-parasitology 20 Aug-15 Oct 2006)

Dr. Darem TABBAA (Veterinary Education 19 Aug -2 Sep 2006)

##### (4) Expenses for the implementation of the Project

¥10,120,000 (See Annex 3) for three years

#### Syrian Side

##### (1) Counterpart personnel necessary for the Project

10 teaching staff and 8 research assistants

Teaching Staff:

1. Dr. Darem Tabbaa	Professor, Public Health/ Dean-Project Manager
2. Dr. Omar Alziabi	Lecturer, Immuno-pathology/ Virology
3. Dr. Samer Ibrahim	Lecturer, Microbiology/ Bacteriology
4. Dr. Yaser Al-Omar	Lecturer, Epidemiology
5. Dr. A. Karim Kalb Allouz	Professor, Microbiology/ Bacteriology
6. Dr. Mohsen Katranji	Professor, Microbiology/ Parasitology
7. Dr. Abdul Karim Al-Khaled	Professor, Microbiology/ Parasitology
8. Dr. Ahmad Subuh	Associate Professor, Biochemistry
9. Dr. A. Aziz Arwanah	Professor, Meat Hygiene
10. Dr. Azam Krudi	Professor, Microbiology/ Virology, Temporary Leave

Research Assistants (Veterinarian)

1. Dr. Mahmud Muhsen	Immunodiagnosis
2. Dr. Yaseen Mohsen	Bacteriology
3. Dr. Abdul Jabar Chekh Suliman	Biochemistry
4. Dr. Mohammad Amin Sabbagh	Parasitology
5. Dr. M. Mahdi Al-Shahni	Virology, Left for Ph. D. study
6. Dr. Omar Al-Madani	Virology
7. Dr. Hazem Al-Milli	Biochemistry
8. Dr. Emad Adi	Biochemistry

(2) Buildings and facilities

- Land, building and facilities necessary for the implementation of the Project
- Rooms and space necessary for the installation and storage of the equipment
- Office space and necessary facilities for the Japanese experts

(3) Supply and replacement of machinery, equipment, instruments, vehicles, tools, spare parts and any other materials necessary for the implementation of the Project

(4) Expenses for the implementation of the Project  
USD 925,000 (See Annex 3) for three years

## (2) The Degree of Achievement of Outputs

### Outputs 1: Educational activities at FVM are enhanced and organized with effective use of equipment.

Currently, most of the diagnostic equipment which was supplied by Japanese Grant Aid in 2001 has been properly managed and in use conditions for education, research and training purposes for FVM activities such as preparation of materials for specimen for the use in laboratory practices. At the beginning of the Project, various kinds of troubles occurred concerning to equipment such as carelessness and inappropriate operation by the staff in charge, who were lacking knowledge and experience. These troubles were solved by aftercare services of suppliers and installation of appropriate facilities such as large capacity of UPS (Uninterruptible Power Supply), upgrading of electricity power line at the buildings by FVM's expenses, so that almost all the equipment is maintained in proper manner.

The responsible staff was appointed for regular use and management of the equipment. In addition, operation manuals for major equipment were prepared in all the faculty departments. As for maintenance, one electric engineer has been assigned, and buses

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are used effectively in clinical field practice and summer camping practice for the fifth and fourth year student respectively.

The number of degrees in the academic course has been increased. Two PhDs, fourteen Masters, and One hundred and twelve Diplomas are acknowledged during project period, which increased comparing to the previous three years (Zero PhD, five Masters, and sixty three Diplomas). In addition, more than twenty papers were published in local academic journals in the year 2005-2006, and one research paper was submitted to an international journal.

**Outputs 2: The faculty students gain a good knowledge and practical diagnostic methods.**

Practical education of diagnosis has been strengthened, and new subjects have been recently introduced in the new syllabus such as; Veterinary Preventive Medicine, Epidemiology, Internal Medicine Part 3, and Poultry Disease Part 2, Genetic Engineering, Apiculture, Fish Disease, and Fish Cultivation, for providing better knowledge and skills for the students using the equipment. In detail, educational methods were improved, as the new curricula increased practical class hours for the undergraduates from 107 hours to 160 hours in five years, i.e. 50%. Especially for the 4<sup>th</sup> and 5<sup>th</sup> year students, practical classes for disease diagnosis were increased by more than 10 hours a week in comparison with previous curricula. An effort was made for better quality of the practical class by the reduction of student numbers in a class (decreased from forty to twenty five students).

**Outputs 3: Information and know-how on animal diseases are accumulated and used for education.**

Routine bacteriological, parasitological and serological diagnostic skills have been developed and become applicable for disease diagnosis and survey studies especially in CLDR. Staff have conducted research projects to investigate paratuberculosis, camel pox, *Neospora caninum* infection, and some residual chemical pollutants such as Pb and benzene. More research projects on other important diseases such as toxoplasmosis, sheep pox and bovine leukemia have been in progress. Serum sampling, specimen collection and preparation of immune sera and antigens have been carried out for establishing animal disease diagnosis and survey system especially for brucellosis, chlamydiosis and causes of abortion and diarrhoea in sheep and cattle, and Newcastle disease, salmonellosis and avian influenza in poultry.

Some of the techniques, research results and materials obtained through the diagnostic and survey activities have been used for the education purposes at FVM. Developed techniques and knowledge have been used for the training of technical staff of FVM and also used for the post-graduate training courses of the parasitological and immunological diagnoses and epidemiology-biochemistry.

Information of epidemiological evidence has been accumulated by the project activities. Such result is getting shared among relevant organizations.

**Outputs 4: Educational system for faculty students and also re-educational programs for veterinarians are established.**

Three kinds of training course were carried out mainly for students, faculty staff and veterinarians.

Previously the graduates enter diploma before master's course followed by PhD studies. At present, two systems are available; Practical Diploma for the students who wish to have more field experience, and Master's and PhD courses for excellent students. By the introduction of Practical Diploma, the former Diploma course was cancelled in order to enhance the comprehensive education system.

Intensive practical classes for Diploma course were carried out once a year. Diploma student training courses were carried out in the following fields, diagnostic techniques for parasitology and immunodiagnosis (25 students, 2 weeks, 2004), bacteriology and parasitology and immunodiagnosis and basic epidemiology-biochemistry ( 27 students, 4 weeks, 2005) and bacteriology and virology, and diagnostic techniques for parasitology and basic epidemiology (26 students, 2 weeks, 2006). In 2006, basic bio-chemistry analysis training was held, in which 5 research assistants were attended.

A total of thirteen (13) training courses for veterinarian (Bio-security, Parasitology, Clinical Pathology-bacteriology, Epidemiology, Special Epidemiology, Immuno-diagnosis, Clinical Diagnosis and Treatment) were held and 222 veterinarians attended. One remaining course is scheduled in the middle of November 2006. These training courses were highly and widely appreciated by field veterinarians and relevant organizations in Syria.

Through these courses, the faculty accumulated the know-how of training of diagnosis techniques. FVM, MOAAR and SVA have agreed to carry out the continuous training courses and cost sharing (FVM; 50%, MOAAR; 25%, SVA; 25%).

**(3) Prospects of Achieving Project Purpose**

The Project is almost achieved its purpose of the improvement and strengthening of veterinary education in Al Baath University including training for veterinarians with strong commitment and involvement of the faculty staff. For instance it was the first time for the students to attend the intensive training courses, which impressed and stimulated them.

**(4) Prospects of Achieving Overall Goal**

Overall Goal is expected to be achieved by certain degree of achievement of the project purpose on the conditions as follows.

- Continuous training courses which was agreed among MOAAR, SVA and FVM are held
- Provision of proper training in quality and quantity which is supported by continuous accumulation of information on animal diseases



Mahrab