Project Design Matrix (PDM)

Project Title : Project on Development of Efficient Irrigation Techniques and Extension in Syria Project Period: March 2005 – March 2008

Target Area: Rural Damascus, Daraa and Hama Governorates Target group: Irrigation engineers, extension workers, and farmers in the project areas Version 2.0

Date: October 2007

(3)-3 Improve the extension materials. (3)-4 Provide extension services to the farmers in and surrounding the project sites.			**Pre-conditions:** Responsible irrigation engineers and extension workers join the project as required.

Project areas: Three provinces of Hama, Rural Damascus and Dara, **Project sites**: Selected farmlands within the project areas for focusing project activities.

Pilot demonstration farms: Farmlands within the project sites being equipped modern irrigation equipment/facilities under the project.

Annex 3

Record of Meetings

Minutes of Meeting
for
The Kick-off Meeting
of
The Project on Development of Efficient Irrigation Techniques and Extension in Syria

The Japan International Cooperation Agency (JICA) dispatched the Project Team (hereinafter referred to as "JICA Team") on Development of Efficient Irrigation Techniques and Extension to Syria in accordance with the "Record of Discussions" that was signed on November 10, 2004. After arriving in Syria for the JICA Team, Kick-off Meeting was held in the conference room of Administration of Natural Resource Research (ANRR) on May 10, 2004.

As a result of the discussions, the JICA Team and the Syrian officers concerned agreed on the matters referred to in the document attached hereto. The names of attendants on the Kick-off Meeting are shown in the List of Attendants hereinto.

Damascus, May 10, 2005

Dr.Shuichi MATSUSHIMA
Team Leader
JICA Project Team on
Development of Efficient Irrigation
Techniques and Extension in Syria

Dr.Majd Jamal
Director General
General Commission for Scientific
Agricultural Research
Ministry of Agriculture and Agrarian
Reform, The Syrian Arab Republic

Discussed and Agreed matters in the Kick-off Meeting

1. Team Leader of the JICA Team explained about the basic plan of the Project on the basis of the Project Document, which was prepared in Japan during the Preparation Work Period. The Plan and contents of the Project Document were generally approved by the Syrian officers concerned.

2. The JICA Team requested to establish the Project Implementation Unit (PIU) nominating suitable Syrian officers to the counterparts of the Project. The Syrian side appointed Syrian personnel to each specialized counterpart as follows:

Title of Counterpart	Name of personnel	Belonging Organization
A) Counterpart personnel of PIU for Project Management		
Project Director	Dr.Majd Jarnal	D.G of GCSAR
Project Manager	Dr.Riad Al Shayeb	Director of ANRR
Sub-Project Manager*	Waiting for the assumption of office	Director of Extension Directorate
Advisor*	Mr.Ali Kaisi	ANRR
Technical Supervisor*	Mr.Marcel Romhein	ANRR
Project Coordinator	Mr.Firas Salloum	ANRR
Administration*	Mr.Radwan Yousef	ANRR
B) Counterpart personnel of PIU for specified subjects		
Irrigation	Mr.Firas Salloum (concurrently)	ANRR
Training	Mr.Nasr Koki	ANRR
Agricultural Extension	Mr.Elias Khouli	Extension Directorate
-do-	Mr.Abdallah Khabbaz	Extension Directorate
Agro-economy/Agronomy	Mr.Waleed Al Hazeem	ANRR
Irrigation System Designing	Mr.Nasr Koki (concurrently nominated)	ANRR
Socio-economy	To be nominated**	ANRR
Technology Transfer*	Mr.Waleed Al Hazeem(concurrently)	ANRR

*: These positions are newly proposed and agreed to be posted within the PIU.
**: Syrian side agreed to nominate a suitable person to the post as soon as possible.

3. Both sides agreed that the counterpart personnel for specified subjects are in full-time assignment or equally involved in the Project implementation.

4. The counterpart personnel shall go into action of the Project implementation. The counterpart personnel of PIU for specified subjects will hold a weekly discussion to determine weekly schedule and to attain the scheduled tasks.

List of Attendants on the Kick-ff Meeting held on May 10, 2005

Name	Position	Phone	Fax
Dr.Riad Al Shayeb	Director of ANRR	5756012	57386400
Mr. Ali KAISI	Deputy of ANRR	011-57386314	011-57386400
Mr. Firas Salloum	Water Resources Management Division	094636046	57386400
Mr. Nasr Koki	Water Resources Management Division	2710604	57386400
Mr. Waleed Al Hazeem	Water Planning and Irrigation System Design Division	4720765	57386400
Mr. Elias Khouli	Extension Directorate	2233714	44674711
Mr. Abdallah Khabbaz	Extension Directorate	092874181	
Mr. Radwan Yousef	Public Relations ANRR		
Dr. Maan Daoud	Water Resources Management Division		
Mr. Ahmad Zuleta	Water Requirement and Irrigation Methods Division		
Mr. Mohammed KheirBunni	Agricultural Environment Division		
Mr. Marcel Romhein	Water Planning and Irrigation System Design Division .	093411157	
Mr. Mazen Naji	Soil Maintenance and Land Reclamation Division		
Mr. Abd Al Razak nktah	GIS/ R.S. Division		
Mr. Talal Khadra	Soil Fertility Division		
Dr. Shiuchi MATSUSHIMA	Team Leader of the Project		
Mr. Akira KOTO	Member of the Project		
Mr. Hiroyasu ONUMA	Member of the Project		
Mr. Eiichi TAKIGAWA	Member of the Project		

Miss. Reiko FUNABA	Assistant Resident Representative JICA		
Mr. Rouand SIDO	Program Officer JICA	011-3339359	3334834

Minutes of Meeting
for
1st Steering Committee Meeting
of
The Project on Development of Efficient Irrigation Techniques and Extension in Syria

The Japan International Cooperation Agency (JICA) dispatched the Project Team (hereinafter referred to as "JICA Team") on Development of Efficient Irrigation Techniques and Extension to Syria in accordance with the "Record of Discussions" that was signed on November 10, 2004. After arriving in Syria for the JICA Team, 1st Field Work has been started. At the completion of the field work, 1st Steering Committee Meeting was held in the conference room of Administration of Natural Resource Research (ANRR) on September 21, 2005.

As a result of the discussion, the JICA Team and the Syrian officers concerned exchanged their opinions and agreed on the matters referred to in the document attached hereto. The names of attendants on the 1st Steering Committee Meeting are shown within the document hereinto.

Damascus, September 21, 2005

Dr.Shuichi MATSUSHIMA
Team Leader
JICA Project Team on
Development of Efficient Irrigation
Techniques and Extension in Syria

Dr.Majd Jamal
Director General
General Commission for Scientific
Agricultural Research
Ministry of Agriculture and Agrarian
Reform, The Syrian Arab Republic

Summary of the First Steering Committee of JICA Project Development Effective Irrigation Techniques and Extension In Syria

The first steering committee of JICA Project of "Development Effective Irrigation Techniques and Extension" was held under JICA's care on Wednesday 21/9/2005 at 1:00 in GCSAR at the NRRM center.

The following Messrs attend the meeting:

- Dr. Majd Jamal	General Director of GCSAR	Chief
- Dr. Riad al-Shayeb	Director of NRRM	Member
- E. Eid Kahwaji	Director of Agricultural	Member
- E. Ali Kaisi	Director of NRRM Assistant	Member
- E. Bassam Baioun	Chief of Extension and Habilitation Division at the Ministry of Agriculture	Member
- E. Samer Khateb	International Cooperation at the Ministry of Agriculture	Member
- E. Firas Salloum	Syrian Project Coordinator	Member
- E. Saleem Abdul Aziz	State Planning Commission	Member
- Dr. Shuichi MATSUSHIMA	JICA Project Leader	Member
- E. Akira KOTO	JICA Project Sub-leader	Member
- E. Eiichi TAKIGAWA	Project Coordinator	Member
- Mr. Kazohidi NAGASAWA	JICA Resident Representative Office in Syria	Member
- Mr. Takishi OKUDA	First Secretary of Japan Embassy	Member
- E. Noryoki MORI	Expert at Water Resources Information Center at the Ministry of Irrigation	Member
- E. Yoichi IWAI	Expert at the Ministry of Local Administration and Environment	Member

The following Messrs also attend the meeting:

- Mr. Ghassan Habal	Responsible of Economic Cooperation at the Embassy of Japan	
- Mr. Muhamad Duboush	The Ministry of Local Management and Environment	
- E. Elias Khouli	Agricultural Extension Directory	Counterpart
- E. Bassam al-Husein	NRRM	Counterpart

The following Messrs were absent:

- E. Maher Hamoudeh	Ministry of Irrigation
- Miss Riko FONABA	JICA Office

- E. Mitsuo NISHIYA JICA Expert
- E. Tomoki HOTTA JICA Expert
- E. Naoki KOGA JICA Expert
- E. Hiroyasu OHNUMA JICA Expert

1. The Steering Committee Schedule:

* Opening. Dr. Majd Jamal
* Summary about the Project of Development Effective Irrigation Techniques and Extension. Dr. Shuichi MATSUSHIMA
* Discussion the missions of the steering committee and subject related to the project. All Members
* Discussion results. Dr. Majd Jamal
* Additional schedule of the project. Dr. Shuichi MATSUSHIMA
* Conclusion. Dr. Majd Jamal

Schedule Discussion

The Opening:

Dr. Majd Jamal welcomed the attendance of DEITEX steering committee members and he thanks the Japanese government and JICA for their continues efforts to succeed this project.

Mr. Kazohidi NAGASAWA talked about JICA's activities in Syria and about the Japanese recognition in such projects and about the importance of this project to Syria.

Mr. Takishi OKUDA concentrated on the importance of Agriculture in Syria for that the Japanese government is interested in the cooperation in this field, so the Japanese experts team was send to start working on this project as a starting project for other coming projects in this field.

Project Summary:

Dr. Shuichi MATSUSHIMA mentioned the contribution of irrigated agriculture in the Syrian economic, and problems such as water shortage, population increment, the importance of providing drinkable water and enough food for the increasing population. As agriculture is the largest consumptive of water, this project is necessary for saving irrigation water.

The project will be performed in three governorates: Rural Damascus, Hama, and Daraa for three years from March 2005 till March 2008. Rural Damascus and Daraa are most famous in applying drip irrigation by using wells, and Hama is famous in applying sprinkler irrigation more than wells.

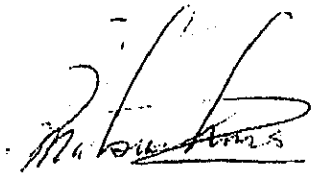
Currently farmers are using much amount of water to get less production, for that the project aims to provide much production with less amount of water and energy

through improving irrigation equipment, so the Syrian government is trying to perform the national project of modern irrigation conversion, that requires using efficient equipments and modern technologies parallel to agricultural extension and training activities to convince farmers with this modern technique and its economical feasibility.
The first stage of the project finished by preparing a survey about villages and farmers, some said that this survey took a long time to be finished, but even though this survey is very important for future projects in Syria. In the second stage demonstration fields will be established in the project's suggested governorates.
E. Elias: we would like to thank the Japanese for their endless efforts to complete the first survey of the project despite of the difficulties which faced the project in its first stage.

Missions of the Steering Committee:
E. Bassam Baioun wondered about the economical feasibility of the project.
Dr. Shuichi MATSUSHIMA said: that the economical effect is essential in succeeding the project through decreasing the energy's costs, saving water and increasing the production, it is also important to mention that each side has its own economical case.
Dr. Riad al-Shayeb: I think that the need of increasing water sufficiency is more important than the economical feasibility as 95% of classical water resources are used in agriculture, with the need of calculating the economical benefit of each cubic meter of water after increasing its sufficiency, taking into consideration that the NRRM has important economical studies show the costs and benefits of governmental irrigation projects and pumping from different wells' depths for most important crops and some vegetables and fruit trees, and giving highly importance to drinkable water.
E. Ali Kaisi: the technical and economical studies show that improving modern irrigation techniques will save 30 to 50 % of water resources used in agriculture that will cover water shortage and provide enough food and continues agriculture and increase farmer income.
Dr. Shuichi MATSUSHIMA: saving water in agriculture will lead to provide more water for the industrial sector and provide more drinkable water resources.
We are concentrating on farmer's economical side to facilitate the conversion into modern irrigation, so we are interested in convincing farmers with the economical benefits to perform modern irrigation technologies, and in the next stage we will present a report contains economical analysis about the project.
E. Elias Khouli: according to the previous plan of the project, extension and training would start in April, so do we still following the same plan or did it change?

Dr. Shuichi MATSUSHIMA: we analyzed the economical situation, and we will keep on analyzing the economical situation through the project's progress, and after establishing the demonstration fields, extension and training will start.
We would like to request the cooperation of the Ministry of Industry through a representative person attending the steering committee.
Dr. Majd Jamal: we should take into concentration that there are many factories which produce irrigation pipes but they are not following the international standards, and we will do our best to send your request to the Ministry of Industry to send us their representative of the standards commission to attend our steering committee.

Summary:
Everyone emphasized their cooperation to succeed the project, and the project documents were distributed to the members.



Minutes of Meeting
for
2nd Steering Committee Meeting
of
The Project on Development of Efficient Irrigation Techniques and Extension in Syria

The Japan International Cooperation Agency (JICA) dispatched the Project Team (hereinafter referred to as "JICA Team") on Development of Efficient Irrigation Techniques and Extension to Syria in accordance with the "Record of Discussions" that was signed on November 10, 2004. After arriving in Syria for the JICA Team, 1st Field Work was started. Succeedingly, 1st Work in Japan and 2nd Field Work have been implemented. At the completion of the 2nd Field Work, 2nd Steering Committee Meeting was held in the conference room of Administration of Natural Resource Research (ANRR) on March 6, 2006.

As a result of the discussion, the JICA Team and the Syrian officers concerned exchanged their opinions and agreed on the matters referred to in the document attached hereto. The names of attendants on the 2nd Steering Committee Meeting are shown within the document hereinto.

Damascus, March 6, 2006

Dr.Shuichi MATSUSHIMA
Team Leader
JICA Project Team on
Development of Efficient Irrigation
Techniques and Extension in Syria

Dr.Majd Jamal
Director General
General Commission for Scientific
Agricultural Research
Ministry of Agriculture and Agrarian
Reform, The Syrian Arab Republic

Summary of the Second Steering Committee Meeting of the Project on Development of Efficient Irrigation Techniques and Extension In Syria (D.E.I.TEX Project)

The second steering committee meeting of the Project on "Development of Efficient Irrigation Techniques and Extension in Syria" was held on Monday 6/03/2006 at 12:30 in GCSAR at the conference room of ANRR.
The following Messrs attend the meeting:

Dr. Majd Jamal	General Director of GCSAR
Dr. Riad Al Shayeb	Director of ANRR
E. Mohammad Abdullah	Director of Agricultural Extension
E. Ali Kaisi	Deputy of ANRR
E. Saleem Al Aziz	State Planning Commission
E. Bassam Bayoun	Chief of Training Directorate
E. Samer Al Khatieb	International Cooperation at MAAR
Dr. Shuichi MATSUSHIMA	JICA Project Team Leader
E. Akira KOTO	JICA Project Team Sub-leader
E. Hiroyasu ONUMA	Team Member as Agricultural Extension
E. Eiichi TAKIGAWA	Team Member as Project Coordinator
E. Romhin Marcel	Counterpart as Supervisor
E. Firas Salloum	Counterpart as Syrian Project Coordinator
E. Bassam Al Husein	Counterpart as Training
E. Nasr Koki	Counterpart as Irrigation System Design
E. Walid Al Hazem	Counterpart as technology Trasfer/Agro-Economy
E. Samer Al Ahmad	Counterpart as Irrigation System Design
Mr. Kazuhide NAGASAWA	Resident Representative of JICA Office in Syria
Miss. Reiko FUNABA	Assistant Resident Representative of JICA Office in Syria
Mr. Rouand Sido	Programme Officer of JICA Office in Syria
Miss. Rahaf Kahwaji	Secretary of Project Team

Agenda of the 2nd Steering Committee Meeting of (D.E.I.TEX Project)

12:30 – 12:45	Introduction
12:45 – 13:15	Explanation of the Progress of 2nd Field Work
13:15 – 13:30	Recommendation from the Project Team
13:30 – 14:00	Questions and Answers
14:00 – 14:10	Further Schedule of the Project, and Conclusion

Introduction:

Dr. Majd Jamal: I'd like to welcome everybody and to discuss the project progress and the next period to know what's going on and what will happen in the future.

Dr. Shuichi Matsushima: thanks for your attendance, according to the necessity of saving water which has been highlighted in Syria, the steering committee hold its meetings continuously. Now we have successfully finished the second field work, and in comparing with our progress and the project design we can see that 30% of our tasks have been completed. We have conducted our baseline survey.

The major subjects in the progress of our project are: the establishment of demonstration farms on the development of modern irrigation, and the training and extension activities to train the person who will play the role of water extensionist in irrigation, our main target is to make the farmer perform good irrigation without much waste of water, through training and extension activities performed by our project.

Explanation of the Progress of 2nd Field Work

E. Firas Salloum, explained the criteria of selecting the demonstration farms in details, and the targets of demonstration farms in each governorate throughout facility design and installation, on-farm water management, fertigation, use of water resources, and finally the impacts.

Then he talked about the training and extension activities taken during 2nd field work, and the structure of water extension which based on qualifying water extensionist to perform continues field visits to know the farmer problems and find the suitable solutions or send the complicated ones to the research level, to create the needed cooperation between extension and research centers necessary for sustainable agriculture.

Then he explained the role of water extensionists and the subjects of the training course, and the expected outcome of the training, then he explained the applied tools during the training course and the outcomes and learned lessons through the training/extension activities.

Recommendation from the Project Team

Dr. Shuichi Matsushima: pointed out the current recommendations from the concerned Ministries to continue their good cooperation to the project activities during the absence of the Project Team in March.

The purpose of our Training courses is to train the water extensionists of extension units, they needs official posts to work more effectively, so we kindly ask you to give them such official posts to give them the chance to achieve their missions and tasks.

We kindly ask the Ministry of Irrigation, to provide more information and data to the Project.

Questions and Answers:

E. Ali Kaisi: I think the duration of the training course is short, four days of training is not enough to create a water extensionist, especially in designing and installing irrigation system. Training materials should be easily explained not scientifically for easier transmitting to the farmers.

Dr. Shuichi Matsushima: our project can't cover all the problems of extension and training, the Syrian side should take a role in training, our role is to improve the extension and the training not to take that role.

Dr. Riad Al Shayeb: I'd like to thank the Japanese Team for their efforts and I'd like to ask them if the Project could introduce group water user, and if it could close one well out of four in Kafr Hour for example, that will be a good achievement of the project as a starting point for establishing water user associations.
And he also wondered why ANNR didn't participated in deciding the tender process, and the decision was made in JICA Office not at ANNR.
Dr. Shuichi Matsushima: we are trying to convince group of farmers to share using one well, and we are expecting different reactions from the farmers side.
Our counterparts joined in the approach of the contract, through their suggestions and recommendations, and JICA only depended on ANNR recommendation.
E. Romhin Marcel: we joined in modifying the designs and provided them with the best irrigation equipment companies, then JICA picked one according to best prices and quality.
Dr. Riad: asked about reducing the area of the demonstration farms.
Dr. Shuichi Matsushima: we are concentrating on the quality more than quantity.
Finally, before our departure to Japan we kindly ask your continues cooperation during our absence.
Dr. Majd Jamal: we wish you a nice trip and safely return to continue your activity successfully.

Minutes of Meeting
for
3rd Steering Committee Meeting
of
The Project on Development of Efficient Irrigation Techniques and Extension in Syria

The Japan International Cooperation Agency (JICA) dispatched the Project Team (hereinafter referred to as "JICA Team") on Development of Efficient Irrigation Techniques and Extension to Syria in accordance with the "Record of Discussions" that was signed on November 10, 2004. After arriving in Syria for the JICA Team, Field Work of the Project was started. Succeedingly, a series of Field Works in Syria have been implemented. At the completion of the 3rd Field Work, 3rd Steering Committee Meeting was held in the conference room of Administration of Natural Resource Research (ANRR) on January 31, 2007.

As a result of the discussion, the JICA Team and the Syrian officers concerned exchanged their opinions and agreed on the matters referred to in the document attached hereto. The names of attendants on the 3rd Steering Committee Meeting are shown within the document hereinto.

Damascus, January 31, 2007

Dr.Shuichi MATSUSHIMA
Team Leader
JICA Project Team on
Development of Efficient Irrigation
Techniques and Extension in Syria

Dr.Majd Jamal
Director General
General Commission for Scientific
Agricultural Research
Ministry of Agriculture and Agrarian
Reform, The Syrian Arab Republic

Meeting Minutes of the Third Steering Committee Meeting of the Project on Development of Efficient Irrigation Techniques and Extension in Syria (DEITEX Project)

The third steering committee of DEITEX Project was held on Wednesday 31/1/2007 at the meeting room of ANRR.
The following Messrs attended the meeting:

The Attendance:

Mr. Kazuhide Nagasawa	Resident Representative of JICA Syria Office
Ms. Reiko Funaba	Deputy R. R. of JICA Syria Office
Mr. Rouand Sido	Programme Officer, JICA Syria Office
Dr. Awadis Arjlan	Director of ANRR
E. Ali Kaisi	Deputy Director of ANRR
Dr. Mamoun Malakani	Director of Modern Irrigation Conversion
Dr. Mohammed Abdullah	Director of Extension
E. Elias Khouli	Head of Program Dep., Extension Directorate
E. Mahmoud al-Attabbaa	National Training Center
E. Ziad Zahraa	National Training Center
E. Bassam Bayioun	National Training Center
E. Firas Salloum	Project Coordinator
E. Nasr Koki	Counterpart
E. Marcel Romhein	Counterpart
E. Bassam al-Husein	Counterpart
Dr. Shichi Matsushima	DEITEX Project, Team Leader
Mr. Hiroyasu Onuma	DEITEX Project, Team Member
Mr. Akira Koto	DEITEX Project, Team Member
Mr. Eiichi Takigawa	DEITEX Project, Team Member
Ms. Rahaf Kahwaji	DEITEX Project, Secretary

Agenda
of
The Thired Steering Committee Meeting
of
DEITEX Project

11:10 – 11:15	Opening Address
11:15 – 11:20	Opening Greeting
11:20 – 11:30	Progress of the Project
11:30 – 11:45	Revision of PDM and Evaluation of the Project
11:45 – 12:00	Improvement of the Counterpart Structure
12:00 – 12:30	Questions and Answers
12:30 – 12:45	Further Schedule of the Project Implementation
12:45 - 12:50	Closing Address

Introduciton:
Dr. Awadis opened the meeting and thanked the participants for their attendance.
Mr. Nagasawa thanked NARR and the participants for their continued cooperation in the implementation of DEITEX Project and its importance in Syria.

Explanation of the Progress of the Project:
Dr Matsushima explained the progress of the project at the time being as the passed duration is **62.2 %** in the project period. and **65.9 %** is achieved for the total fulfillments. Project activities taken so far were explained. In addition to the outcomes, other additional activities of training the staff of DMIC (Directorate of Modern Irrigation Conversion), and training the Iraqi engineers were also accounted.

Explanation of the Revision of PDM and Evaluation of the Project:
Mr. Firas described the PDM (Project Design Matrix) of the Project, the revised items in the PDM and its grounds for the revision. After that, evaluation of current achievement of the Project was clarified on the basis of the revised PDM.

Explanation of the Improvement of the Counterpart Structure:
Mr. Bassam explained the counterpart structure of the Project and raised a suggestion of adding the Directorate of Modern Irrigation Conversion as a third counterpart.

Questions and Answers:
First of all, the progress of the Project explained was approved without questions. All the participants were in agreement on the revision of PDM and evaluation of the Project as Mr. Firas proposed and explained. Furthermore, the participants also agreed on the enrolling of DMIC to the project counterparts with one consent.

After providing the outlines of the National Project of Modern Irrigation Conversion, Dr. Malakani wondered if other governorates besides Hama, Rural Damascus and Daraa could be added to the project area presently or in future. Dr. Awadis referred to the importance to consider more about comprehensive factors like soil and climate in other governorates in the next phase. Mr. Nagasawa replied to their questions that we needed a new proposal from your side, showing which governorates/subjects need to be added to the project area/subjects, for the next phase of the Project.

Mr. Tabaa assured that the Training Center was always ready for full cooperation with the Project.

Mr. Marcel pointed out to the problem of participatory irrigation and asked if the Project could tackle it or not. Mr. Qaisi answered the request of Mr. Marcel by saying that the participatory irrigation was a very wide topic and could not be thoroughly covered by the current Project as it needed certain legislatives and large budget.

Explanation of the Further Schedule of the Project Implementation:
Counterparts gave explanation about the implementation schedule to be taken in this year by their concerned fields.

Finally, Dr. Awadis thanked the participants for their attendance and cooperation.
The meeting was closed at 12:50 pm.

Agreement

among

Counterpart Organizations of DEITEX Project

On the basis of the discussion taken in the 3rd Steering Committee Meeting on 31/1/2007, we attain to an agreement on the followings:

1) Directorate of Modern Irrigation Conversion (DMIC) joins the counterpart alliance of DEITEX Project as a third counterpart agency from the date signed this agreement.

2) Directorate of Modern Irrigation Conversion (DMIC) shall assign their staffs the duties of counterpart of the Project at the required numbers and fields.

3) Every counterpart organizations shall keep mutual cooperation each other so as to successfully attain the project purpose.

Damascus, January 31, 2007

Dr.Shuichi MATSUSHIMA
Team Leader of DEITEX Project

Dr.Malakani MAMOUN
Director of Modern Irrigation Conversion

Dr.Mohammad ABDULLAH
Director of Extension

Mr.Hidekazu NAGASAWA
JICA Resident Representative

Dr.Majd JAMAL
Director General of GCSAR

MINUTES OF MEETIG ON
THE STEERING COMMITTEE FOR
THE TERMINAL EVALUATION REPORT
FOR
THE PROJECT ON DEVELOPMENT OF EFFICIENT IRRIGATION TECHNIQUES AND EXTENSION IN SYRIA

The Japanese Terminal Evaluation Team, organized by the Japan International Cooperation Agency (hereinafter referred to as "JICA") visited the Syrian Arabic Republic (hereinafter referred to as "Syria") from November 11th to November 30th, 2007, for the purpose of conducting the Terminal Evaluation of the Project on Development of Efficient Irrigation Techniques and Extension (hereinafter referred to as "the Project").

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

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

The Committee discussed the major issues pointed out in the Report, and agreed to recommend to the respective governments the matters attached hereto.

Damascus, November 29th, 2007

Ms. Akiko TOMITA	Dr. Majd JAMAL
Resident Representative,	Director General,
Japan International Cooperation Agency	General Commission of Scientific Agricultural Research
Syria Office	Ministry of Agriculture and Agrarian Reform

Major Points of Discussions and Agreement in the Steering Committee

1. The Team presented the Report to the Committee.

2. The Committee accepted the Report and took notes of the recommendations by the Team.

3. The Committee agreed that the Project is to be terminated on 31st March, 2008 as planned.

4. The Committee agreed that it is essential to accelerate dissemination of the Project outputs throughout Syria given that the Project showed clear effects as the model. The Syrian side has requested the Japanese side of further assistance of Japan to extend the outputs and to ensure the sustainable utilization of the Project's output.

Attachment: The Terminal Evaluation Report

THE TERMINAL EVALUATION REPORT
FOR
THE PROJECT ON DEVELOPMENT OF EFFICIENT IRRIGATION TECHNIQUES AND EXTENSION IN SYRIA

Damascus, November 28th, 2007

Mr. Yosuke TAMABAYASHI
Team Leader,
Japanese Evaluation Team

Dr. Wael SEIF
Team Leader/Irrigation,
Syria Evaluation Team

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3. Project Design Matrix (PDM)
4. Evaluation Grid with Findings
5. Plan of Operation (PO)
6. Record of Implementation of Input
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   b. Procurement of the Equipment
   c. List of Counterpart Training in Japan & Counterpart Study Tour of the Third Country
   d. Assignment of Counterparts
   e. Local Cost from Japanese Side
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   g. List of Training Course
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7. List of Productions
8. Performance of the Project Activities
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11. Organization Chart of Ministry of Agriculture and Agrarian Reform
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Minutes of Meeting
for
5th Steering Committee Meeting
of
The Project on Development of Efficient Irrigation Techniques and Extension in Syria

The Japan International Cooperation Agency (JICA) dispatched the Project Team (hereinafter referred to as "JICA Team") on Development of Efficient Irrigation Techniques and Extension to Syria in accordance with the "Record of Discussions" that was signed on November 10, 2004. After arriving in Syria for the JICA Team, Field Work of the Project was started. Succeedingly, a series of Field Works in Syria were implemented. At the termination of the project period, 5th Steering Committee Meeting was held in the conference room of General Commission for Scientific Agricultural Research (GCSAR) on January 23, 2008.

As a result of the discussion, the JICA Team and the Syrian officers concerned exchanged their opinions and agreed on the matters referred to in the document attached hereto. The names of attendants on the 5th Steering Committee Meeting are shown within the document hereinto.

Damascus, January 23, 2008

Dr.Shuichi MATSUSHIMA
Team Leader
JICA Project Team on
Development of Efficient Irrigation
Techniques and Extension in Syria

Dr.Majd Jamal
Director General
General Commission for Scientific
Agricultural Research
Ministry of Agriculture and Agrarian
Reform, The Syrian Arab Republic

Discussed and Agreed matters in the 5th Steering Committee Meeting

1. The Team Leader of the JICA Team explained about the progress of the Project, and about the additional fulfillments concerning to the recommendations which were given by the Terminal Evaluation Study Team.

2. The Team Leader gave details about the contents of Final Report of the Project, in the context of explanation about the progress of the Project. Syrian side was generally approved the contents of Final Report.

3. Japanese Team member explained about the system establishment for the future training/extension activities in Governorate level, which were conducted by the Project Team until now.

4. Japanese Team member explained about the institutional arrangement for the future training/extension activities in central level including the establishment of national team for SMS training. The team member urged to prepare a letter to Agriculture Minister to ask necessary arrangement and administrative order for the institutional arrangement. Syrian side agreed to take an immediate action on this matter.

5. The Syrian participants confirmed their acceptance to the recommendations of the Terminal Evaluation Study again. Then, the participants discussed about recommendations how to make action plan and how to accomplish it. It was approved that the first categorized recommendations about "subjects to be completed by the end of the Project", were mostly completed by the Project Team until now. Syrian side announced that the second categorized recommendations about "subjects to be accomplished after the Project" should be accomplished in collaboration with Syrian Governmental organizations concerned and international research organizations like ICARDA, ACSAD.

6. The Syrian participants fully approved the completion of the Project. They expressed their satisfaction with the fruitful results of the Project, and strongly requested the necessity of commencing new phase.

Attendants of the 5th Steering Committee Meeting

Wednesday, January 23, 2008

at the General Director's Conference Room in GCSAR

List of the Attendants	
Dr. Majd Jamal	General Director of GCSAR
Dr. Awadis Arsan	Director of ANRR, GCSAR
Dr.Mohammad Abdullah	Director of DOE
E. Ahmad Kadiri	Director of MIC, MAAR
Ms.Sahar Touban	Directorate of MIC, MAAR
E. Imad Kwaifi	IWRM, SPC
E. Sawsan Hilal	Director of feasibility study, SPC
M. Ziad Zahra	National Training Center
E. Bassam Husein	DEITEX Project Counterpart, GCSAR
Dr.Mohammad Karow	Researcher in Water Management, ICARDA
Dr. Ammar Wahbi	Soil – Plant water relations, ACSAD
Mr. Satoshi Baba	Second Secretary, Embassy of Japan
Mr.Ghassan Habbal	Senior Assistant, Embassy of Japan
Ms. Akiko Tomita	Resident Representative of JICA Syria Office
Mr.Hider Hider	Program officer, JICA Syria Office
Dr.Shuichi Matsushima	Team leader of DEITEX Project team
Mr.Akira Koto	Co-leader of DEITEX Project team
Mr.Hiroyasu Onuma	Team member of DEITEX Project team
Mr.Eiichi Takigawa	Team member of the DEITEX Project team
Ms.Rahaf Kahwaji	Secretary of the DEITEX Peoject team

Annex 4

Details of the Training Course Program

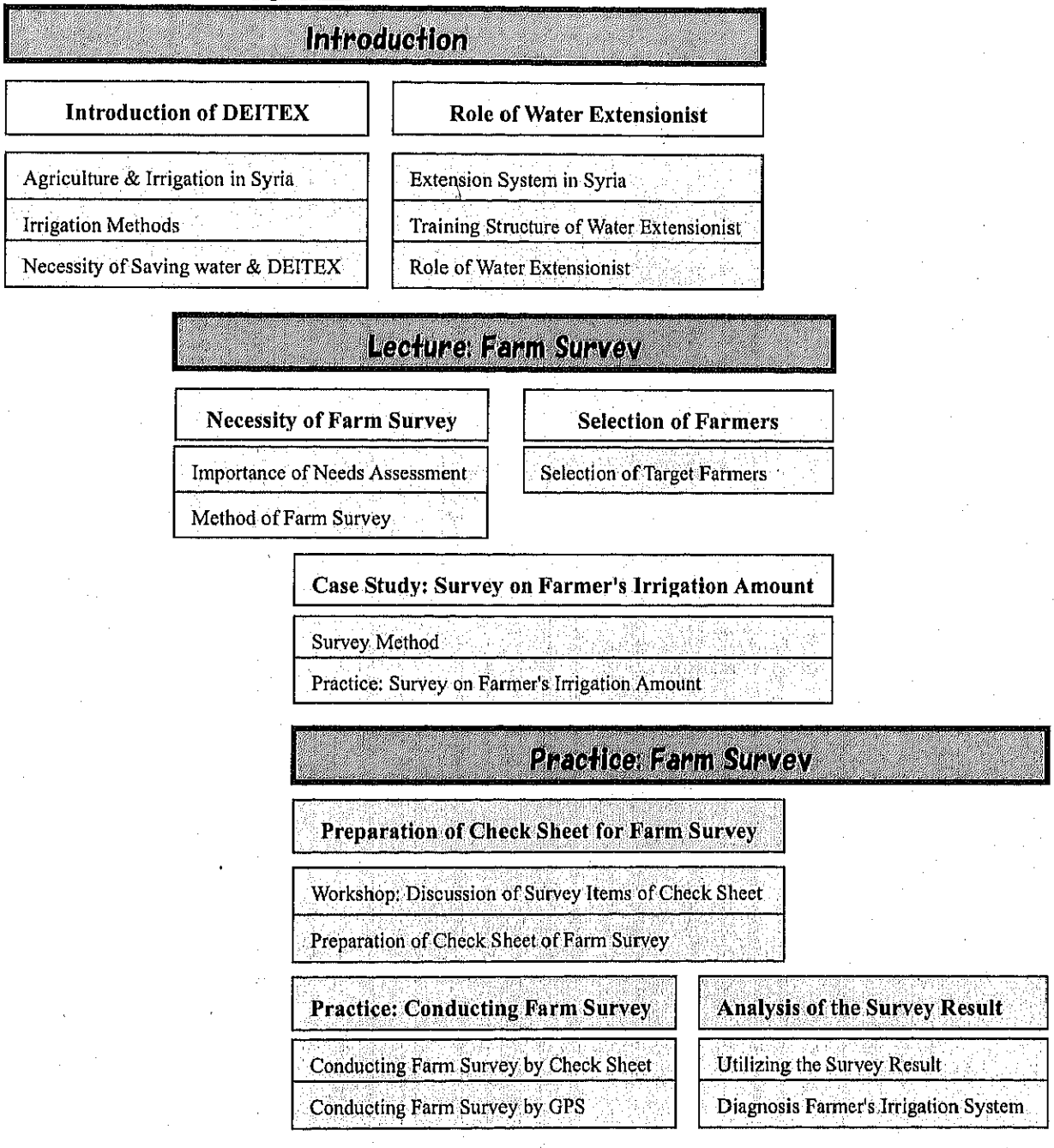
The 1st Training Course for Water Extensionist

Subject	Survey & Diagnosis of Irrigated Farm
Objective	How to conduct farmers survey in order to identify farmer's current conditions.

Major Outputs of the 1st Training Course

Output 1	The participants understand the role of water extensioninst.
Output 2	The participants understand important points to conduct farmers survey.
Output 3	The participants will be able to diagnose modern irrigation system according to check list.

Structure of the 1st Training Course



1st Training Course Program: Survey & Diagnosis of Irrigated Farm

Day	Major Subject	Venue
Day 1	Introduction, Role of Water Extensionist	Training Room
Day 2	Farmer Survey Method	Training Room
Day 3	Preparing Check List for Farmer Survey	Training Room
Day 4	Conducting Farmer Survey	Farm
Day 5	Analyzing the Survey Result	Training Room

Day	Time	Subject
Day 1	09:00 – 09:30	Opening of the Training Course
	09:30 – 10:00	Pre-Evaluation
	10:00 – 11:00	Benchmark Test
	11:00 – 11:30	(Break)
	11:30 – 11:45	Promotion Video
	11:45 – 12:30	Introduction of the DEITEX Project Activities
	12:30 – 13:00	(Break)
	13:00 – 13:30	Extension System and Extension Program in Syria
	13:30 – 14:00	Role of the Water Extensionist
Day 2	09:00 – 09:30	Necessity of Farmers Survey (Significance of problem analysis and needs assessment)
	09:30 – 10:30	Selecting Farmers (Utilization of readily available information)
	10:30 – 11:00	(Break)
	11:00 – 12:00	Method of Farmers Survey (Understanding of farmers problems and needs)
	12:00 – 12:30	(Break)
	12:30 – 13:30	Case Study of Survey on farmers' irrigation amount
	13:30 – 14:00	Practice and Presentation of the results by the participants & Discussion
Day 3	09:00 – 09:30	Irrigation Equipment
	09:30 – 10:00	Example of Bad Irrigation System
	10:00 – 10:30	(Break)
	10:30 – 11:30	Workshop to discuss items to be surveyed
	11:30 – 12:30	Preparation of Check List (Diagnosis of Irrigation Facilities)
	12:30 – 13:00	(Break)
	13:00 – 14:00	Finalizing the Check List
Day 4	09:00 – 09:30	Move to the selected farm
	09:30 – 11:30	Execution of Farmers Survey I
	11:30 – 13:30	Execution of Farmers Survey II
	13:30 – 14:00	Back to the office
Day 5	09:00 – 10:30	Analysis of Survey Results
	10:30 – 11:00	(Break)
	11:00 – 12:30	Presentation of Survey Results
	12:30 – 13:00	(Break)
	13:00 – 14:00	Examination & Final Evaluation

The 2nd Training Course for Water Extensionist

Subject	Design, Install, Operation & Maintenance of Irrigation System
Objective	To learn basic and practical knowledge and skills on design, installation and maintenance of modern irrigation system.

Major Outputs of the 2nd Training Course

Output 1	The participants acquire basic knowledge on modern irrigation system design and installation.
Output 2	The participants understand how to measure emitter discharge in the field.
Output 3	The participants understand how to prepare irrigation schedule.

Structure of the 2nd Training Course

Introduction

Irrigation Equipment	**Case Study: Demonstration Farm**
Name & Function of Irrigation Equipment	Lessons Learned from Demo Farm

Lecture: Design, Installation & Operation of Irrigation System

Design of Irrigation System	**Preparing Irrigation Schedule**
Determination of Pipe Diameter	Crop Water Requirement
Hydraulic Calculation	Utilizing Research Results
Calculation of Irrigable Area	Preparing Irrigation Schedule

Monitoring of Demonstration Farm
Monitoring Method of Demo Farm
Utilizing Monitoring Data

Practice: Design, Installation & Operation of Irrigation System

Practice: Measurement of Emitter Discharge	**Practice on Pipe Fitting**
Field Measurement of Discharge and Pressure	Understanding of basics on installation
Analyze the Result & Diagnosis Irrigation System	Experience of pipe fitting practice

Visiting Demonstration Farm	**Visiting Irrigation Research Station**
Observing irrigation equipment	Understanding research activities
	Observing meteorological station

Training Program : Basic Information on the Modern Irrigation System for Water Extensionists

Day	Major Subject	Venue
Day 1	Introduction, Irrigation Equipment	Training Room
Day 2	Irrigation System Design	Training Room
Day 3	Field Measurement of Emitter Discharge	Training Room
Day 4	Practice on Pipe Fitting, Preparing Irrigation Schedule	Training Room
Day 5	Establishing and Monitoring of Demonstration Farm	Training Room

Day	Time	Subject
Day 1	09:00 – 09:30	Opening of the Training Course
	09:30 – 10:00	Pre-Evaluation of the participants
	10:00 – 10:30	Evaluation of the 1st Training Course
	10:30 – 11:00	Video Presentation
	11:00 – 11:30	(Break)
	11:30 – 12:30	Introduction to Irrigation Equipment [Lecture]
	12:30 – 13:30	Introduction to DEITEX Demonstration Farm [Lecture]
Day 2	09:00 – 10:00	Basic Information on the Irrigation System Designing (1) [Lecture]
	10:00 – 11:00	Basic Information on the Irrigation System Designing (1) [Practice]
	11:00 – 11:30	(Break)
	11:30 – 13:00	Basic Information on the Irrigation System Designing (2) [Lecture]
	13:00 – 14:00	Basic Information on the Irrigation System Designing (2) [Practice]
Day 3	09:00 – 09:30	Important Points on Installation, O & M of Irrigation System [Lecture]
	09:30 – 12:00	Field Measurement of Emitter Discharge [Practice]
	12:00 – 12:30	(Break)
	12:30 – 13:30	Activities and Facilities of Irrigation Research Station [Lecture & Visit]
	13:30 – 14:00	Field Measurement of Soil Moisture & Soil Characteristics [Practice]
Day 4	09:00 – 10:30	Practice on Pipe Fitting [Practice]
	10:30 – 11:00	(Break)
	11:00 – 12:30	Preparing Irrigation Schedule (1) [Lecture] & [Practice]
	12:30 – 13:00	(Break)
	13:00 – 14:00	Preparing Irrigation Schedule (2) [Lecture] & [Practice]
Day 5	09:00 – 10:00	Considerations for the design and installation of the demonstration farm [Lecture]
	10:00 – 10:30	Monitoring of the Demonstration Farm
	10:30 – 11:00	(Break)
	11:00 – 12:00	Examination & Final Evaluation
	12:00 – 13:00	Closing of the Training Course

The 3rd Training Course for Water Extensionist

Subject	Preparing Extension Materials
Objective	To learn how to prepare extension message for the effective technology transfer to farmers.

Major Outputs of the 3rd Training Course

Output 1	The participants understand how to conduct problem analysis to identify farmer's problem.
Output 2	The participants produce extension poster based on the identified farmer's problem.
Output 3	The participants produce extension brochure related to the poster.

Structure of the 3rd Training Course

Lecture: Extension Materials

Kind of Extension Activities & Current Situation	**Kind of Extension Materials**
Results of Baseline Survey on Extension Activities	Kind & Characteristics of Extension Materials
Impact Analysis of Current Extension Activities	Important Points to prepare Extension Materials

Practice: Preparing Extension Materials

Problem Analysis Workshop
Problem Analysis on Farmer's Irrigation
Identify Problems through Workshop Discussion

Preparing Extension Poster	**Preparing Extension Brochure**
Reviewing the Result of Problem Analysis	Important Points to prepare Extension Brochure
Preparing Extension Poster based on the Identified Problems	Practice: Preapring Extension Brochure

Lecture: Preparing Extension Materials (Related Issues)

Farm Economy Survey	**Preparing Extension Video by Power Point**
Importance of Data Collection	Introduction of Necessary Steps & Basic Technique
Monitoring Activity of Demo Farm	

Raising Awareness by Competition
Significance of Competition to raise Awareness

3rd Training Course Program : Preparing Extension Materials

Day	Major Subject	Venue
Day 1	Extension Activities, Kinds and Role of Extension Message	Training Room
Day 2	Problem Analysis, How to prepare Extension Poster	Training Room
Day 3	How to prepare Extension Brochure	Training Room
Day 4	Farm Economy Survey, Importance of Recorded Data	Training Room
Day 5	How to utilize various Software, How to organize various Competitions	Training Room

Day	Time	Subject
Day 1	09:00 – 09:30	Pre-Evaluation
	09:30 – 10:00	Review of the previous training course
	10:00 – 10:30	Promotion video
	10:30 – 11:00	(Break)
	11:00 – 11:45	[Lecture] Extension activities
	11:45 – 12:30	[Lecture] Kind and role of message
	12:30 – 13:00	(Break)
	13:00 – 14:00	[Workshop] Introduction to problem analysis
Day 2	09:00 – 10:00	[Workshop] Problem analysis and how to select the subject
	10:00 – 11:00	[Practice] Discussion on selected subject and sample poster
	11:00 – 11:30	(Break)
	11:30 – 14:00	[Practice] Preparation of Extension Poster by Group
Day 3	09:00 – 10:00	[Lecture] How to prepare Extension Brochure
	10:30 – 11:30	[Practice] Preparation of sample extension brochure
	11:30 – 12:00	(Break)
	12:00 – 14:00	[Practice] Preparation of Extension Brochure by Group
Day 4	09:00 – 10:30	[Workshop] Discussion on Farm Economy Survey
	10:30 – 11:00	(Break)
	11:00 – 12:30	[Practice] Farm Economy Survey as Role Play
	12:30 – 13:00	(Break)
	13:00 – 14:00	[Lecture] Importance of Recorded Data
Day 5	09:00 – 10:30	[Lecture] How to utilize various Software such as Power Point and Photoshop
	10:30 – 11:00	(Break)
	11:00 – 12:30	[Lecture] How to organize various Competitions such as Poster Competition and Village Theater Competition
	12:30 – 13:00	(Break)
	13:00 – 14:00	Examination & Final Evaluation

The 4th Training Course for Water Extensionist

Subject	Organizing Field Day
Objective	To learn how to organize field day activity in order to transfer information and techniques on irrigation to farmers in practical and effective way.

Major Outputs of the 4th Training Course

Output 1	The participants understand how to prepare field day.
Output 2	The participants understand how to implement field day.
Output 3	The participants understand how to evaluate and report field day.

Structure of the 4th Training Course

Introduction

Introduction of Field Day

- Different Kind of Extension Activity
- New Concept of Field Day

Lecture: How to conduct Extension Activity

Training & Extension System	**Case Study: Field Visit in Surghaya**
Introduction of the DEITEX System	Outline of the Activity
Preparation of Extension Activity	How to prepare, conduct & evaluate

Preparation

(1) Preparing Extension Program	**(2) Rehearsal**
Group Discussion to prepare Activity Sheet & Timetable	Conducting rehearsal
Preparing Evaluation Questinnaire	Modifying the Program

Implementation

Conducting Field Day

- Implementation of Field Day
- Discussion after the Implementation

Evaluation & Reporting

- How to prepare Activity Report
- Presentation of the Activity in Evaluation Meeting

4th Training Course Program : Organizing Field Day

Day	Major Subject	Venue
Day 1	Introduction	Training Room
Day 2	Preparation 1	Training Room
Day 3	Preparation 2 (Rehearsal)	Field
Day 4	Field Day (Implementation)	Field
Day 5	Evaluation and Reporting	Training Room

Day	Time	Subject
Day 1	09:00 – 09:15	Pre-Evaluation
	09:15 – 09:30	Promotion video
	09:30 – 09:45	Review of the previous training course
	09:45 – 10:30	[Lecture] Introduction to Field Day
	10:30 – 11:00	(Break)
	11:00 – 12:00	[Lecture] Training and Extension System of DEITEX Project
	12:00 – 12:30	(Break)
	12:30 – 14:00	[Case Study] Field Day in Surghaya
Day 2	09:00 – 10:00	Group Discussion on Field Visit (Technical Demonstration) Program
	10:00 – 10:30	(Break)
	10:30 – 12:00	Preparation of Pre-Evaluation & Final Evaluation
	12:00 – 12:30	(Break)
	12:30 – 14:00	Presentation of the Result of Discussion
Day 3	09:00 – 11:00	Conducting Rehearsal of the Field Visit Program
	11:00 – 11:30	(Break)
	11:30 – 12:30	Discussion for Modifying the Field Visit Program
	12:30 – 13:00	(Break)
	13:00 – 14:00	Finalization of the Activity Sheet for the 4th Day
Day 4	09:00 – 09:30	Introduction of the today's activity
	09:30 – 12:00	[Field Day] Measurement of emitter discharge under different operation pressure with invited farmers (at Nashabie)
	12:00 – 12:30	(Break)
	12:30 – 14:00	Discussion on the Result
Day 5	09:00 – 10:00	Evaluation meeting
	10:00 – 10:30	(Break)
	10:30 – 12:00	Examination & Final Evaluation
	12:00 – 13:00	Closing ceremony

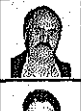
Annex 5

List of the Trained SMS and WE

List of the Qualified Water Extensionist by the DEITEX Ptroject

No	Name		Arabic Name	Governorate	Employment	Year
1	Majd Al Housh		مجد الحوش	RDamascus	Arne	2006
2	Salim Shahin		سليم شاهين	RDamascus	Arne	2006
3	Amal Nour Din		أمل نور الدين	RDamascus	Bait Tima	2006
4	Zuhair Rajeh		زهير راجح	RDamascus	Bait Tima	2006
5	Wassim Ramadan		وسيم رمضان	RDamascus	Bait Saber	2006
6	Ahmad Ali Mhammad		أحمد علي محمد	RDamascus	Qatana Maslaha	2006
7	Walif Hassoun		وليف حسون	RDamascus	Haramoun Maslaha	2006
8	Amer Mazoukh		عامر مازوخ	RDamascus	Kafr Hour	2006
9	Hussam Nakhleh		حسام نخلة	RDamascus	Surghaya	2006
10	Hussam Ghabra		المهندس حسام غبرة	RDamascus	Dimas	2006
11	Ilham Zaidan		الهام زيدان	RDamascus	Deir Qanoun	2006
12	Zaher Abdallah		زاهر العبدالله	RDamascus	Extension, Sahanaya	2006
13	Janet Hasan		جانيت حسن	RDamascus	R Woman, Sahanaya	2006
14	Diab Al Hanash		دياب الحنش	RDamascus	DMIC	2006
15	Rasha Al Nabwanee		رشا النبواني	RDamascus	DMIC	2006
16	Safa Muhana		صفاء مهنا	RDamascus	DMIC	2006
17	Abdul Karem Wassof		عبد الكريم وسوف	RDamascus	DMIC	2006
18	Ily Hadad		إيليا حداد	RDamascus	DMIC	2006
19	Marwan Kiwan		مروان كيوان	Daraa	Tafas	2006
20	Waleed Al Sharif		وليد الشريف	Daraa	Daiel	2006
21	Khalid Al Masri		خالد المصري	Daraa	Daiel	2006
22	Mohamed Al Husain		محمد الحسين	Daraa	Ebbta	2006

List of the Qualified Water Extensionist by the DEITEX Ptroject

No	Name		Arabic Name	Governorate	Employment	Year
23	Muamar Al Khalil		معمر الخليل	Daraa	Mzerieb	2006
24	Husain Ramadan		حسين رمضان	Daraa	Jileen	2006
25	Muneeb Al Jibawi		منيب محمود الجباوي	Daraa	Jasem	2006
26	Kasem Abou Jabal		قاسم محمد أبو جبل	Daraa	Sheikh Saed	2006
27	Ayham Zain Abideen		المهندس ايهم زين العابدين	Daraa	Tseel	2006
28	Haisam Al Jelm		هيثم ابراهيم الجلم	Daraa	Jasem	2006
29	Nidar Al Khalil		نضال خالد الخليل	Daraa	Nawa	2006
30	Husain Shinowan		حسين شنوان	Daraa	Extension, Daraa	2006
31	Nabeel Kiwan		نبيل كيوان	Daraa	Tafas Maslaha	2006
32	Ibrahim Teisan		ابراهيم تعيسان	Daraa	Nawa Maslaha	2006
33	Mhamad Abdoullah		محمد عبد الله	Daraa	Daraa Agriculture D	2006
34	Muneer Warad		منير وراد	Daraa	Daraa Agriculture D	2006
35	Mhamad Khraiba		محمد خريبة	Daraa	Jileen Irrigation S	2006
36	Mhamoud Shahadat		محمود الشحادات	Daraa	DMIC	2006
37	Shaker Zneqa		شاكر زنيقة	Daraa	DMIC	2006
38	Mhamad Haj Hasan		محمد الحاج حسن	Hama	Kafr Zeita	2006
39	Omar Omar		عمر العمر	Hama	Latamne	2006
40	AbdulNasr Al Qasoum		عبد الناصر القسوم	Hama	Hamamiat	2006
41	Hasan Bazow		المهندس حسن بازو	Hama	Kafr Zeita	2006
42	AbdulMonam Al Shaar		عبد المنعم الشعار	Hama	Kafr Zeita	2006
43	Asi Asi		عاصي عاصي	Hama	Majdal	2006
44	Ahmad Othman		أحمد العثمان	Hama	Halfaya	2006

List of the Qualified Water Extensionist by the DEITEX Ptroject

No	Name		Arabic Name	Governorate	Employment	Year
45	Ahmad AbdulMalik		أحمد عبد الملك الحسن	Hama	Maerzaf	2006
46	Mahmoud Aziz A Abd		محمود العبد	Hama	Zalaqiat	2006
47	Mohamad Omar		محمد عمر الخطيب	Hama	Shaikha	2006
48	Saleh Mansour		صالح منصور	Hama	Rabiaa	2006
49	Mohamad Moafak Al Najar		محمد موفق النجار	Hama	Tizeen	2006
50	Obaida Agha		عبيدة مراد آغا	Hama	Hama	2006
51	Husam Obaysi		حسام عبيسي	Hama	Extension, Hama	2006
52	Mahmoud Al Nahir		محمود نهير	Hama	Extension, Hama	2006
53	Shadi Farouh		شادي فروح	Hama	DMIC	2006
54	Khudr Hamoud		خضر حمود	Hama	DMIC	2006
55	Hanan Abidow		حنان عبيدو	Hama	DMIC	2006
56	Ossama Muhanna		اسامة المهنا	RDamascus	Zubdin, Gouta	2007
57	Rafiq Labbad		رفيق لباد	RDamascus	Nashabie, Douma	2007
58	Dalal Koshuha		دلال قوشحا	RDamascus	Haran, Haran	2007
59	Imad Al Haj Ali		عماد الحاج علي	Daraa	Ghazale	2007
60	Abdul Razak Saleme		عبد الرزاق سلامة	Daraa	Karak	2007
61	Ahmad Ali Rifai		احمد الرفاعي	Daraa	Sanamein	2007
62	Abdul Hakim Al Hamid		عبد الحكيم الحميد	Daraa	Enkhal	2007
63	Khaldoun Al Ghazale		خلدون الغزالي	Daraa	Namer	2007
64	Mhamad Al Khalil		محمد الخليل	Hama	Tibet Al Imam, Soran	2007
65	Mohidin Adel Al Khalaf		محي الدين الخلف	Hama	Morek, Soran	2007
66	Abdul Moaen Gazallah		عبد المعين غزالة	Hama	Khatab, Hama	2007

List of the Qualified Water Extensionist by the DEITEX Ptroject

No	Name		Arabic Name	Governorate	Employment	Year
67	Abdullah Hayder		عبد الله حيدر	Hama	Tal Al Dara, Salamie	2007
68	Hasan Shino		حسن شنو	Hama	Deir Al Fardes, Harrbenafso	2007
69	Samar Dibyat		سمر الديبات	RDamascus	DMIC	2007
70	Sulaiman Shahin		سلمان شاهين	Ghab	DMIC	2007
71	Ali Saleh Rabia		علي ربيع	Lattakia	DMIC	2007

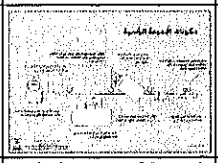
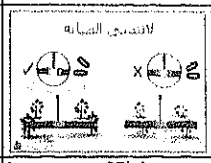
List of the Qualified Irrigation SMS by the DEITEX Ptroject

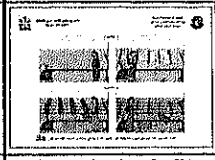
No	Name		Arabic Name	Governorate	Employment
1	Majd Al Housh		مجد الحوش	RDamascus	Arne
2	Amer Mazoukh		عامر مازوخ	RDamascus	Kafr Hour
3	Ahmad Ali Mhammad		أحمد علي محمد	RDamascus	Qatana
4	Walif Hassoun		وليف حسون	RDamascus	Haramoun Maslaha
5	Zaher Abdallah		زاهر العبدالله	RDamascus	Sahanaya, Extension Section
6	Kasem Abou Jabal		قاسم محمد أبو جبل	Daraa	Seikh Saad
7	Haisam Al Jelm		هيثم ابراهيم الجلم	Daraa	Jasem
8	Omar Omar		عمر العمر	Hama	Latamne
9	Mohamad Moafak Al Najar		محمد موفق النجار	Hama	Tizeen
10	Hasan Bazow		حسن بازو	Hama	Kafr Zeita Maslaha
11	Husam Obaysi		حسام عبيسي	Hama	Hama Extension Section
12	Mahmoud Al Nahir		محمود نهير	Hama	Hama Extension Section
13	Ily Hadad		إيليا حداد	RDamascus	DMIC
14	Shaker Zneqa		شاكر زنيقة	Daraa	DMIC
15	Shadi Farouh		شادي فروح	Hama	DMIC

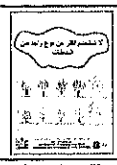
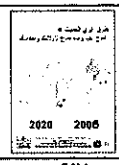
Annex 6

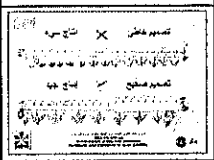
Distributed Extension Materials

List of Posters Produced under DEITEX

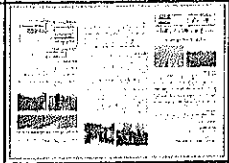
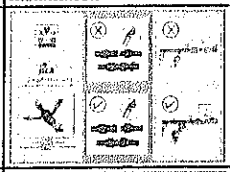
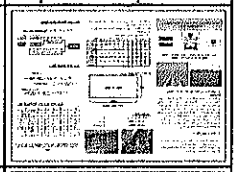
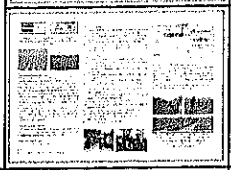
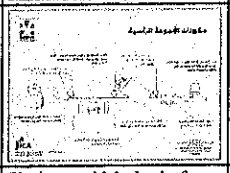
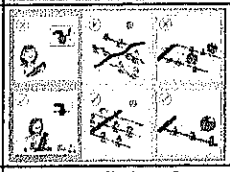
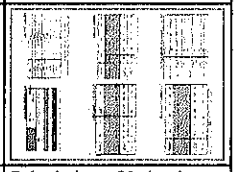
Number of Poster		No. 1	No. 2	No. 3	No. 4	No. 5
Title of Poster		Control Unit	Filter Cleaning	Sprinkler	Flow Meter	Spagetti Tube
Image of Poster						
Contents of Poster		Typical Layout of Control Unit	Importance of Cleaning Filter in Proper Manner	Importance of Fixing Rubber Fitting for Sprinkler	Importance of Installing Flow Meter in Control Unit	Importance of Fix Emitter at the End of Spagetti Tube
Distributed To	Damascus	225	225	225	225	225
	Daraa	225	225	225	225	225
	Hama	225	225	225	225	225
	Others	125	125	125	125	125
	Total	**800**	**800**	**800**	**800**	**800**

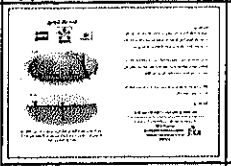
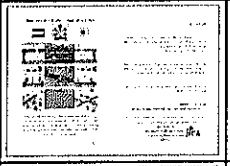
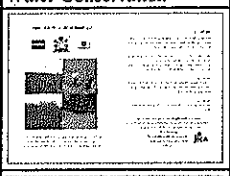
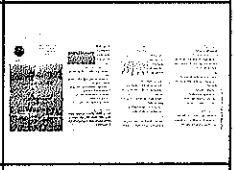
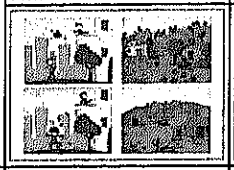
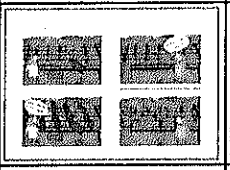
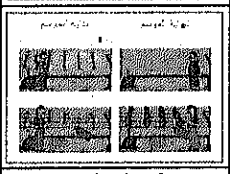
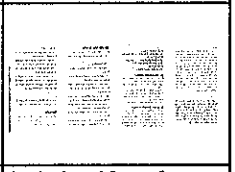
Number of Poster		No. 6	No. 7	No. 8	No. 9	No. 10
Title of Poster		Water Saving	Water Saving	Warning	Water Conservation	Water Saving
Image of Poster						
Contents of Poster		Importance of Saving Irrigation Water	Importance of Saving Irrigation Water	Present Situation of Groundwater Depletion	Modern Irrigation for Water Conservation	Importance of Saving Irrigation Water
Distributed To	Damascus		225			
	Daraa		225			
	Hama		225			
	Others	21	125	30		50
	Total	**21**	**800**	**30**	**5,000 in All Syria**	**50**

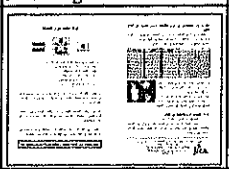
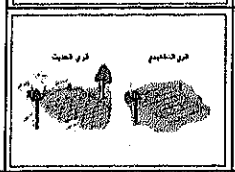
Number of Poster		No. 11	No. 12	No. 13	No. 14	No. 15
Title of Poster		Water Saving	Water Saving	Drip Emitter	Warning	Water Saving
Image of Poster						
Contents of Poster		Importance of Saving Irrigation Water	Importance of Saving Irrigation Water	Drip Emitter For Tree	Importance of Water Conservation	Importance of Water Saving
Distributed To	Damascus	225				
	Daraa	225				
	Hama	225				
	Others	125	50	50	50	50
	Total	**800**	**50**	**50**	**50**	**50**

Number of Poster		No. 16	No. 17	No. 18	No. 19	No. 20
Title of Poster		Sprinkler	Advantage	Warning		
Image of Poster						
Contents of Poster		Pressure Control for Sprinkler	Advantage of Modern Irrigation	Warning		
Distributed To	Damascus		225			
	Daraa		225			
	Hama		225			
	Others	50	125			
	Total	**50**	**800**			

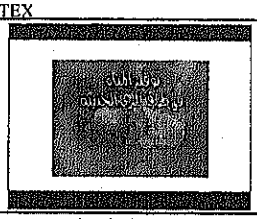
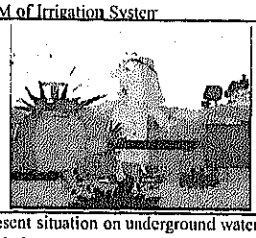
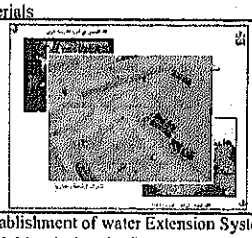
List of Brochures Produced under DEITEX

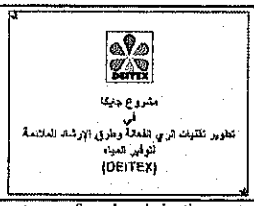
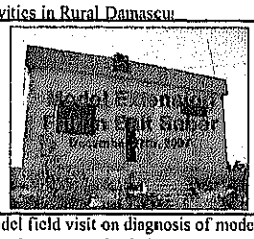
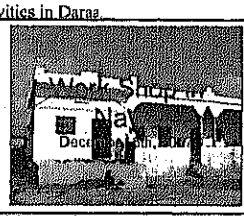
Number of Brochure		No. 1	No. 2	No. 3	No. 4
Title of Brochure		DEITEX	Filter Cleaning	Installation	Crop Water Requirement
Image of Brochure					
					
Contents of Brochure		Introduction of DEITEX Project	Timing and Method of Filter Cleaning	Proper Installation of Irrigation System	Calculation of Irrigation Interval and Irrigation
Distributed To	Damascus	200	2500	2500	2500
	Daraa	200	2500	2500	2500
	Hama	200	2500	2500	2500
	Others	1,400	1500	1500	500
	Total	**2,000**	**9000**	**9000**	**8000**

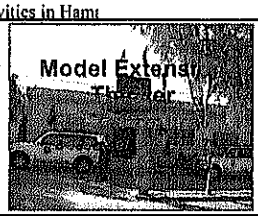
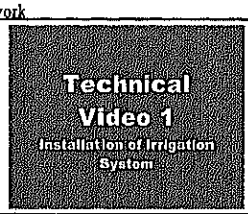
Number of Brochure		No. 5	No. 6	No. 7	No. 8
Title of Brochure		Upper and Lower Stream	Improper Irrigation System	Water Conservation	Agricultural Loan
Image of Brochure					
					
Contents of Brochure		Water Resource is Common Resource for All	Improper System does not assure anticipated yield	Modern Irrigation for Water Conservation	Agricultural Loan for Modern Irrigation
Distributed To	Damascus	2500	2500	2500	
	Daraa	2500	2500	2500	
	Hama	2500	2500	2500	
	Others	500	500	500	
	Total	**8,000**	**8,000**	**8,000**	**15,000 in All Syria**

Number of Brochure		No. 9	No. 10	No. 11	No. 12
Title of Brochure		Advantage			
Image of Brochure					
					
Contents of Brochure		Advantage of Modern Irrigation			
Distributed To	Damascus	2500			
	Daraa	2500			
	Hama	2500			
	Others	500			
	Total	**8,000**			

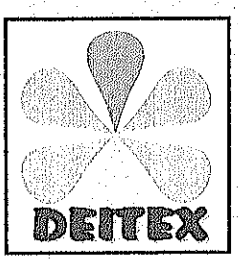
List of Promotion Video under DEITEX

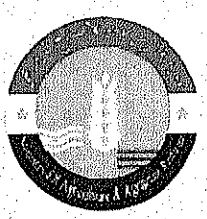
Number of Video		No. 1	No. 2	No. 3
Title of Video		Promotion Video for the Introduction of DEITEX	Promotion Video for Design, Installation, O&M of Irrigation System	Promotion Video for Preparing Extension Materials
Image of Video				
Summary Contents		- Importance of agriculture and wate - Present situation on water resources - Balance of water demand and supply - Importance of water saving agricultur - Present situation on research and extension activities - Objectives and activities of DEITEX	- Present situation on underground water depletion - Importance of introducing modern irrigation system - Model of typical control unit - Model of typical field network - Actual installation work - Formulation of irrigation schedule - Comparison of good and bad maintenance - Image of ideal water extensionis	- Establishment of water Extension System - Activities during the first training course - Activities during the second training course - Objectives of 3rd and 4th training courses - Kinds and roles of extension messages - Extension Brochure - Extension Poster - Video Program - Mobile Theater - Image of Ideal Water Extensionis
Distributed To	Damascus	25	25	25
	Daraa	25	25	25
	Hama	25	25	25
	Others	25	25	25
	Total	100	100	100

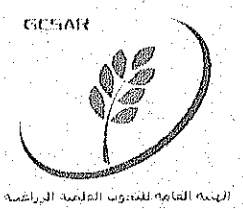
Number of Video		No. 4	No. 5	No. 6
Title of Video		Promotion Video for Organizing Field Day	Promotion Video for Model Extension Activities in Rural Damascus	Promotion Video for Model Extension Activities in Daraa
Image of Video				
Summary Contents		- Advantages of modern irrigation syster - How to use modern irrigation system proper - Proper Design and Installation - Proper Design - Proper Installation - Proper Operation - Appropriate Amount of Irrigation Wate - How to Apply Appropriate Amoun - Proper Maintenance - Maintenance of Control Unit and Network	- Model field visit on diagnosis of modern irrigation system for fruit crops - Model seminar on installation and maintenance of drip irrigation system - Model workshop on disturbance of fruit trees due to change of irrigation system from surface to drip - Model fair on advantage and proper operation of modern irrigation	- Model field visit on diagnosis of modern irrigation system (GR) - Model seminar on crop-wise water management under modern irrigation system - Model field day on proper installation of modern irrigation system - Model workshop on economic evaluation of tomato cultivation
Distributed To	Damascus	25	25	25
	Daraa	25	25	25
	Hama	25	25	25
	Others	25	25	25
	Total	100	100	100

Number of Video		No. 7	No. 8	No. 9
Title of Video		Promotion Video for Model Extension Activities in Hama	Technical Video for Installation of Irrigation Network	
Image of Video				
Summary Contents		- Model field day on introduction of drip irrigation system for cotton cultivation - Model practical demonstration on proper pressure distribution of sprinkler system - Model field visit on proper discharge distribution of sprinkler system - Model mobile theater on the advantage o modern irrigation system	- Proper PE pipe connection - Proper fixation of main &submain pipes - Proper GR connection to sub-main pipe - Proper fixation of drip emitters on lateral - Proper fixation of mini-sprinklers on lateral - Proper fixation of sprinkler on lateral	
Distributed To	Damascus	25	25	
	Daraa	25	25	
	Hama	25	25	
	Others	25	25	
	Total	100	100	


JICA


DEITEX

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