

## 付 属 資 料

1. 協議議事録 (M/M)
2. 討議議事録 (R/D)



MINUTES OF MEETINGS  
BETWEEN  
THE JAPANESE DETAILED PLANNING SURVEY TEAM  
AND  
THE GOVERNMENT OF UZBEKISTAN  
FOR  
JAPANESE TECHNICAL COOPERATION  
ON  
THE PROJECT FOR WATER MANAGEMENT IMPROVEMENT  
IN UZBEKISTAN

In response to the request from the Government of Uzbekistan, the Detailed Planning Survey Team (hereinafter referred to as "the Team") organized by the Japan International Cooperation Agency (hereinafter referred to as "JICA") headed by Mr. Minoru HOMMA, was sent to Uzbekistan from March to April, 2009. This survey was carried out to discuss the framework of the technical cooperation project, the Project for Water Management Improvement (hereinafter referred to as "the Project").

During their stay in Uzbekistan, the Team exchanged views and had a series of discussion with the Uzbek authorities concerned.

As a result of the discussions, the Team and the Uzbek side agreed on the matters referred to in the documents attached hereto.

Done in duplicate in English and Russian languages, both texts shall be equally authentic. In case of any divergence of interpretation, the English text shall prevail.

Tashkent, 16 June 2009

*for* 江尻幸彦  
Minoru Homma  
Team Leader,  
Detailed Planning Survey Team  
Japan International Cooperation Agency

Shavkat Khamraev  
Shavkat Khamraev  
Deputy Minister,  
Ministry of Agriculture and Water  
Resources  
Republic of Uzbekistan

## ATTACHED DOCUMENT

### Acronyms and Abbreviations

- WUA : Water User Association
- BISM : Basin Irrigation Systems Management
- ISD : Irrigation System Department
- R/D: Record of Discussions
- PDM: Project Design Matrix
- PO: Plan of Operation
- JCC: Joint Coordinating Committee

### 1. OUTLINE OF THE PROJECT

#### 1. Agreement on Technical Cooperation

Both sides confirmed that the Project will be implemented in accordance with the provisions of the Agreement on Technical Cooperation between the Government of Japan and the Government of Uzbekistan, signed in Tokyo on June 5, 2006 (hereinafter referred to as "the Agreement" ),

#### 2. Draft Framework of the Project

Both sides agreed on the draft framework of the Project which is given as the Tentative Framework of the Project (Annex 1), the Tentative Project Design Matrix (PDM) (Annex 2) and the Tentative Plan of Operation (PO) (Annex 3).

The framework of the Project will be finally confirmed when the Record of Discussions (R/D) is signed.

#### 3. Explanation of the Project purpose and Outputs of the Project (See Annex 1)

Both sides confirmed the meaning of the Project purpose and the Outputs described in the Tentative Framework of the Project (Annex 1) as follows.

##### (1)Project purpose: Water management conducted by pilot WUAs is improved.

The Project aims at improving the WUA's functions of water management by:

- 1) strengthening the WUA's capacity of planning and implementation of appropriate water distribution
- 2) strengthening the WUA's capacity of planning and implementation of maintenance of irrigation and drainage systems under WUA's control.(including provision of equipment and rehabilitation/upgrading works)
- 3) establishing the training system for WUA's personnel as well as related government staff.

At the end of the Project implementation, it is expected that more effective use of irrigation water per unit area is achieved and that increase of irrigated land/accumulated irrigated land is observed.

It is also important that the members of WUA have more confidence in WUA's activities and the members become more satisfied with the given services.

(2) Output 1: Water is distributed according to the plan.

Formulation of WUA's plan for water distribution and its implementation are supported by government staff. The WUA's capacity on water distribution is strengthened mainly through on- and off-the job trainings.

(3) Output 2: Irrigation and drainage systems are properly maintained.

Formulation of WUA's plan for maintenance of irrigation and drainage systems (internal canals and internal collectors under WUA's responsibility) and its implementation are supported by government staff. The WUA's capacity on maintenance of irrigation and drainage systems is strengthened mainly through on- and off-the job trainings.

To achieve the output 1 and 2, rehabilitation and/or upgrading of minor facilities such as water gates, hydoposts under WUA's responsibility, will be conducted as part of activities.

(4) Output 3: Training system for WUA is established.

It is necessary that organization/function within the government to train and support WUA is clarified and strengthened. Teaching materials (textbooks etc.) for government staff and for leaders of WUA, guidelines for strengthening WUA will be prepared/improved.

4. Target areas of the Project

Both sides confirmed the followings.

(1) Target areas

The target areas are the followings,

- Tashkent Region (under Chirchik-Ahangaran BISM)
- Syrdarya Region (under Lower Syrdarya BISM)
- Djizak Region (under Lower Syrdarya BISM)

(2) Number of pilot WUAs

The purpose of establishing pilot WUA within the Project is to show a successful example of strengthening WUA's capacity on water management. The spread-out will be the next stage. Therefore, the number of pilot WUAs for the Project should be limited as six (6) WUAs in total (two(2) pilot WUAs from each targeted regions).

Both sides confirmed the details of the six (6) pilot WUAs as follows:

- 1) It is required that two (2) pilot WUAs in each region are under the management of the same ISD and the same Division.
- 2) It is required that two (2) pilot WUAs in each region are basically under the same irrigation canal system and adjacent to each other.
- 3) The two (2) pilot WUAs in each region will be prioritized as follows: One (1) pilot WUA will start activities in the first year (*First Batch*). Another pilot WUA will start activities in the following year (*Second Batch*).
- 4) The whole command area of the selected pilot WUAs will be regarded as the target areas, however, a model area will be determined within each pilot WUA for intensive repair works of canals.
- 5) Aiming at smooth implementation of the activities, it is required that the model areas in the pilot WUAs of the same regions are adjacent to each other.
- 6) Due to limitation of JICA's budget, wheel excavator and small vehicle will be provided only for the pilot WUAs of *First Batch*.
- 7) C/Ps will mainly conduct the activities for the pilot WUAs of *Second Batch* based on the experience of the activities for the pilot WUAs of *First Batch*. The Japanese experts will support activities in the pilot WUAs of *Second Batch* through guidance to C/Ps.
- 8) The Objectively Verifiable Indicators of Project purpose and Outputs will be determined after the commencement of the Project. The numerical indicators for the *First Batch* and those for the *Second Batch* will be set differently since the duration of activities as pilot WUAs and the degree of involvement of the Japanese experts are different.

#### 5. Provision of Equipment

Both sides confirmed the necessity of the equipment for O&M of irrigation and drainage systems under WUA's responsibilities. The basic equipment required for the Project is the followings.

For BISM and ISD,

- (1) vehicle
- (2) water measuring and other devices
- (3) Office equipment (computer, printer, etc.)

For WUAs,

- (1) wheel excavator (mainly for cleanings/maintenances of internal canals, 0.3-0.5m<sup>3</sup>).
- (2) small vehicle
- (3) motorbike/bicycle
- (4) water measuring devices
- (5) office equipment (computer, printer, etc.)
- (6) communication tools

(7) office furniture

However, the Team expressed that the necessity of the equipment "(6) communication tools" should be further discussed and that the Team would consult with the Headquarters and feedback it to the Ministry of Agriculture and Water Resources.

The Uzbek side expressed its strong intension to create demonstration site(s) on "drip irrigation technology" within the Project. The Team explained that it would consider the possibility in the course of Project implementation.

The actual necessity of equipment as well as number and its specification of equipment shall be examined before the procurement. Other equipment mutually agreed upon as necessary for the implementation of the Project will be also provided.

6. Term of the Project

The Term of Project will be 3.5 (three and half) years considering the necessity of two times of all year around activities on operation and maintenance of irrigation and drainage related systems. The Term of Project will be formally set and agreed when signing of R/D.

7. Implementing agency of the Project

The Ministry of Agriculture and Water Resources will be the implementing agency of the Project.

The expected Project Director, Project Manager, and the Counterpart personnel in the related departments are listed in the ANNEX IV of the attached Draft Record of Discussions (Annex 4).

The organization charts of the Ministry of Agriculture and Water Resources are attached as Annex 5.

8. Collaboration with other organizations for successful implementation of the Project

The Ministry of Agriculture and Water Resources will have the responsibility of coordinating/organizing the better relationship and joint-working environment among the different ministries/organizations/departments of Uzbek side.

9. Joint Coordinating Committee

For effective implementation of the Project, both sides agreed to establish a Joint Coordinating Committee (JCC). The expected responsibilities and the membership of the JCC are described in the attached draft Record of Discussions (see Annex 4).

**II. OTHER RELEVANT ISSUES FOR IMPLEMENTATION OF THE PROJECT**

### 1. Management of the budget provided by JICA

The Japanese expert, Project Coordinator, will be fully responsible and accountable for the budget provided by JICA Uzbekistan Office for the implementation of the Project. The planning and expenditure of the budget will be done in consultation with the Uzbek side.

### III. DRAFT RECORD OF DISCUSSIONS

The Draft Records of Discussions is attached as Annex 4. After going through the JICA's internal approval, the Record of Discussions will be formally signed by the Chief Representative of JICA Uzbekistan Office and the representative of the Ministry of Agriculture and Water Resources.

The Team explained the rough schedule of the Project implementation after the Detail Planning Survey; the signing of Record of Discussions would be around July 2009 and the commencement of the Project would be around October 2009.

#### Annexes:

Annex 1	Tentative Framework of the Project
Annex 2	Tentative Project Design Matrix (PDM)
Annex 3	Tentative Plan of Operation
Annex 4	Draft Record of Discussions (R/D)
Annex 5	Organization charts



## Tentative Framework of the Project

**Overall Goal**

Water management conducted by WUAs in the Chirchik-Ahangaran BISM and Lower Syrdarya BISM is improved.

**Project Purpose**

Water management conducted by pilot WUAs is improved.

**Outputs**

1. Pilot WUAs are selected.
2. Water is distributed according to the plan.
3. Irrigation and drainage systems are properly maintained.
4. Training system for WUA is established.

**Activities**

- 1-1 To review existing studies/projects on capacity-building of WUA.
- 1-2 To set criteria for selection of pilot WUAs.
- 1-3 To undertake field surveys of candidate pilot WUAs.
- 1-4 To select pilot WUAs.
  
- 2-1 To understand the current situation of water distribution and analyze the problems.
- 2-2 To formulate a plan of water distribution through training.
- 2-3 To implement the distribution of irrigation water according to the plan and conduct monitoring.
  
- 3-1. To understand the current situation of maintenance of irrigation and drainage systems, and analyze the problems.
- 3-2. To formulate a plan of maintenance of irrigation and drainage systems through training.
- 3-3. To conduct periodical maintenance of irrigation and drainage systems according to the plan and conduct monitoring.
  
- 4-1. To prepare training materials for WUA in relation to activity 1 and 2.
- 4-2. To conduct a series of trainings of trainers (TOT) for the staff of BISM and ISDs.
- 4-3. To conduct a series of trainings for leaders of pilot WUAs.
- 4-4. To summarize a guideline for improving water management to be conducted by WUAs.

## Tentative Project Design Matrix (PDM)

Project Title: Project for Water Management Improvement Target Area: - Tashkent Region(under Chirchik-Ahangaran BISM) - Syrdarya Region(under Lower Syrdarya BISM) - Djizak Region(under Lower Syrdarya BISM) Target Groups: WUA members in the 6 pilot WUAs (2 pilot WUAs in each Regions)		Narrative Summary		Objectively Verifiable Indicators	Means of Verification	Important Assumptions
Overall Goal Water management conducted by WUAs in Chirchik-Ahangaran BISM and Lower Syrdarya BISM is improved.				1. Decrease of water use per ha 2. Increase of actual irrigated land	Data from BISM, ISD, HME Report from Project	
Project Purpose Water management conducted by pilot WUAs is improved				1. Decrease of water use per ha 2. Increase of actual irrigated land 3. Increased WUA's sense of ownership 4. Members' satisfaction to distributed water	Data from BISM, ISD, HME Report from Project	Staff of BISM and ISD in the targeted BISM's receive trainings of trainers
Outputs 1. Pilot WUAs are selected 2. Water is distributed according to the plan. 3. Irrigation and drainage systems are properly maintained. 4. Training system for WUA is established.				(Selection of WUA) 1-1 Ratio of formulation of appropriate plan of water distribution 1-2 Ratio of actual water distributed against plan 1-1 Ratio of formulation of appropriate plan of maintenance 1-2 Ratio of actual periodical maintenance work conducted against plan (including its quality) 3-1 Prepared training materials for WUA 3-2 Number of trained trainers 3-3 Number of trained leaders of WUAs	Report from Project Report from Project WUA's record Report from Project WUA's record Report from Project WUA's record	Trained Staff of BISM and ISD continue to work. Trained leaders of pilot WUAs continue to work. Coordination among BISM, ISD, and HME are well managed.
Activities 1-1. To review existing studies/projects on capacity-building of WUA 1-2. To set criteria for selection of pilot WUAs. 1-3. To undertake field surveys of candidate pilot WUAs. 1-4. To select pilot WUAs 2-1. To understand the current situation of water distribution and analyze the problems. 2-2. To formulate a plan of water distribution through training 2-3. To implement the distribution of irrigation water according to the plan and conduct monitoring. 3-1. To understand the current situation of maintenance of irrigation and drainage systems, and analyze the problems 3-2. To formulate a plan of maintenance of irrigation and drainage systems through training 3-3. To conduct periodical maintenance of irrigation and drainage systems according to the plan and conduct monitoring. 4-1. To prepare training materials for WUA in relation to activity 1 and 2 4-2. To conduct a series of trainings of trainers (TOT) for the staff of BISM and ISDs. 4-3. To conduct a series of trainings for leaders of pilot WUAs. 4-4. To summarize a guideline for improving water management to be conducted by WUAs.				Japanese side: 1. Dispatch of Experts (1) Long-term experts - Chief Adviser - Strengthening WUA - Operation and Maintenance of irrigation systems - Project Coordinator Chief advisor and/or Project Coordinator may serve concurrently as one of the sector experts. (2) Short-Term Experts 2. Provision of Equipment 3. Training of Counterparts 4. Allocation of operational costs for the Project	Uzbek side: 1. Assignment of counterpart personnel (1) Project Director (2) Project Manager (3) Counterparts at Central level (4) Counterparts at Regional level 2. Land, Building and Facilities 3. Allocation of operational costs for the Project (staff's salary, utilities at offices, etc.)	Staff of BISM and ISD actively involved in the activities. Trained Staff of BISM and ISD continue to work. Trained leaders of pilot WUAs continue to work. Pre-conditions Important facilities/systems of irrigation and drainage are functional in and around pilot WUAs.

Tentative Plan of Operation (PO)

Project Title: Project for Water Management Improvement		Date: June 2009																	
Activities		10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
1. Pilot WUAs are selected.																			
1-1. To review existing studies/projects on capacity-building of WUA																			
1-2. To set criteria for selection of pilot WUAs																			
1-3. To undertake field surveys of candidate pilot WUAs																			
1-4. To select pilot WUAs																			
2. Water is distributed according to the plan.																			
2-1. To understand the current situation of water distribution and analyze the problems																			
2-2. To formulate a plan of water distribution through training																			
2-3. To implement the distribution of irrigation water according to the plan and conduct monitoring.																			
3. Irrigation and drainage systems are properly maintained.																			
3-1. To understand the current situation of maintenance of irrigation and drainage systems, and analyze the problems																			
3-2. To formulate a plan of maintenance of irrigation and drainage systems through training.																			
3-3. To conduct periodical maintenance of irrigation and drainage systems according to the plan and conduct monitoring																			
4. Training system for WUA is established.																			
4-1. To prepare training materials for WUA in relation to activity 1 and 2.																			
4-2. To conduct a series of trainings of trainers(TOT) for the staff of BISM and ISDs																			
4-3. To conduct a series of trainings for leaders of pilot WUAs.																			
4-4. To summarize a guideline for improving water management to be conducted by WUAs																			

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**RECORD OF DISCUSSIONS**  
**BETWEEN THE JICA UZBEKISTAN OFFICE**  
**AND THE AUTHORITIES CONCERNED OF**  
**THE GOVERNMENT OF UZBEKISTAN**  
**ON JAPANESE TECHNICAL COOPERATION**  
**FOR THE PROJECT FOR WATER MANAGEMENT IMPROVEMENT**  
**IN THE REPUBLIC OF UZBEKISTAN**

The Chief Representative of the Japan International Cooperation Agency (hereinafter referred to as "JICA") in the Republic of Uzbekistan exchanged views and had a series of discussions with authorities concerned with respect to desirable measures to be taken by JICA and the Ministry of Agriculture and Water Resources of Uzbekistan for the successful implementation of the Project for Water Management Improvement (hereinafter referred to as "the Project").

As a result of the discussions, and in accordance with the provisions of the Agreement on Technical Cooperation between the Government of Japan and the Government of Uzbekistan, signed in Tokyo on June 5, 2006 (hereinafter referred to as "the Agreement"), the Chief Representative of JICA and the representatives of the Ministry of Agriculture and Water Resources of Uzbekistan agreed to recommend to their respective Governments the matters referred to in the document attached hereto.

Done in duplicate in the English and the Russian languages, both texts shall be equally authentic. In case of any divergence of interpretation, the English text shall prevail.

Tashkent,                   \_\_th, 2009

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Yukihiko EJIRI  
 Chief Representative,  
 Japan International Cooperation Agency  
 Uzbekistan Office

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Shavkat Khamraev  
 Deputy Minister,  
 Ministry of Agriculture and Water  
 Resources  
 Republic of Uzbekistan

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## THE ATTACHED DOCUMENT

## I. COOPERATION BETWEEN JICA AND THE MINISTRY OF AGRICULTURE AND WATER RESOURCES

1. Ministry of Agriculture and Water Resources will implement the Project for Water Management Improvement (hereinafter referred to as "the Project") in cooperation with JICA.
2. The Project will be implemented in accordance with the Master Plan which is given in Annex I.

## II. MEASURES TO BE TAKEN BY JICA

In accordance with the laws and regulations in force in Japan and the provisions of Article III of the Agreement, JICA, as the executing agency for technical cooperation by the Government of Japan, will take, at its own expense, the following measures according to the normal procedures of its technical cooperation scheme.

## 1. DISPATCH OF JAPANESE EXPERTS

JICA will provide the services of the Japanese experts as listed in Annex II. The provision of Articles V, VI, VII and X of the Agreement will be applied to the above-mentioned experts.

## 2. PROVISION OF MACHINERY AND EQUIPMENT

JICA will provide such machinery, equipment and other materials (hereinafter referred to as "the Equipment") necessary for the implementation of the Project as listed in Annex III. The provision of Article VII of the Agreement will be applied to the Equipment.

## 3. TRAINING OF UZBEK PERSONNEL IN JAPAN

JICA will receive the Uzbek personnel connected with the Project for technical training in Japan.



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### III. MEASURES TO BE TAKEN BY THE MINISTRY OF AGRICULTURE AND WATER RESOURCES OF UZBEKISTAN

1. The Ministry of Agriculture and Water Resources of Uzbekistan will take necessary measures to ensure that the self-reliant operation of the Project will be sustained during and after the period of Japanese technical cooperation, through full and active involvement in the Project by all related authorities, beneficiary groups and institutions.
2. The Ministry of Agriculture and Water Resources of Uzbekistan will ensure that the technologies and knowledge acquired by the Uzbek nationals as a result of the Japanese technical cooperation will contribute to the economic and social development of Uzbekistan.
3. In accordance with the provisions of Articles V and VII of the Agreement, the Government of Uzbekistan will grant in Uzbekistan privileges, exemptions and benefits to the Japanese experts referred to in II-1 above and their families.
4. In accordance with the provisions of Article VII of the Agreement, the Government of Uzbekistan will take the measures necessary to receive and use the Equipment provided by JICA under II-2 above and equipment, machinery and materials carried in by the Japanese experts referred to in II-1 above.
5. The Ministry of Agriculture and Water Resources of Uzbekistan will take necessary measures to ensure that the knowledge and experience acquired by the Uzbek personnel from technical training in Japan will be utilized effectively in the implementation of the Project.
6. In accordance with the provision of Article V of the Agreement, the Ministry of Agriculture and Water Resources of Uzbekistan will provide the services of Uzbek counterpart personnel and administrative personnel as listed in Annex IV.
7. In accordance with the provision of Article V of the Agreement, the Ministry of Agriculture and Water Resources of Uzbekistan will provide the buildings and facilities as listed in Annex V.
8. In accordance with the laws and regulations in force in Uzbekistan, the

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Ministry of Agriculture and Water Resources of Uzbekistan will take necessary measures to supply or replace at its own expense machinery, equipment, instruments, vehicles, tools, spare parts and any other materials necessary for the implementation of the Project other than the Equipment provided by JICA under II-2 above.

9. In accordance with the laws and regulations in force in Uzbekistan, the Ministry of Agriculture and Water Resources of Uzbekistan will take necessary measures to meet the running expenses necessary for the implementation of the Project, which includes utility payments, running cost of equipments, communication cost excluding international phone calls.

#### IV. ADMINISTRATION OF THE PROJECT

1. Deputy Head of Main Department for Water Resources of the Ministry of Agriculture and Water Resources, as the Project Director, will bear overall responsibility for the administration and implementation of the Project.
2. Head of Section, Main Department for Water Resources, Ministry of Agriculture and Water Resources, as the Project Manager, will be responsible for the managerial and technical matters of the Project.
3. The Japanese Chief Advisor will provide necessary recommendations and advice to the Project Director and the Project Manager on any matters pertaining to the implementation of the Project.
4. The Japanese experts will give necessary technical guidance and advice to Uzbek counterpart personnel on technical matters pertaining to the implementation of the Project.
5. For the effective and successful implementation of technical cooperation for the Project, a Joint Coordinating Committee will be established whose functions and composition are described in Annex VI.

#### V. JOINT EVALUATION

Evaluation of the Project will be conducted jointly by JICA and the Uzbek authorities concerned, at the middle and during the last six months of the

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cooperation term in order to examine the level of achievement.

## VI. CLAIMS AGAINST JAPANESE EXPERTS

In accordance with the provision of Article VI of the Agreement, the Government of Uzbekistan undertakes to bear claims, if any arises, against the Japanese experts engaged in technical cooperation for the Project resulting from, occurring in the course of, or otherwise connected with the discharge of their official functions in Uzbekistan except for those arising from the willful misconduct or gross negligence of the Japanese experts.

## VII. MUTUAL CONSULTATION

There will be mutual consultation between JICA and the Ministry of Agriculture and Water Resources of Uzbekistan on any major issues arising from, or in connection with this Attached Document.

## VIII. MEASURES TO PROMOTE UNDERSTANDING OF AND SUPPORT FOR THE PROJECT

For the purpose of promoting support for the Project among the people of Uzbekistan, the Government of Uzbekistan will take appropriate measures to make the Project widely known to the people of Uzbekistan.

## IX. TERM OF COOPERATION

The duration of the technical cooperation for the Project under this Attached Document will be 3.5 (three and half) years starting from the date when the first Japanese expert arrives in Uzbekistan.

ANNEX I	MASTER PLAN OF THE PROJECT
ANNEX II	LIST OF JAPANESE EXPERTS
ANNEX III	LIST OF MACHINERY AND EQUIPMENT
ANNEX IV	LIST OF UZBEK COUNTERPART AND ADMINISTRATIVE PERSONNEL
ANNEX V	LIST OF BUILDINGS AND FACILITIES
ANNEX VI	JOINT COORDINATING COMMITTEE



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Annex 4

ANNEX I

**MASTER PLAN OF THE PROJECT**

(same to the Annex 1 Tentative Framework of the Project)

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Annex 4

ANNEX II

### LIST OF JAPANESE EXPERTS

Fields of expertise to be covered by the Japanese experts are as follows:

(Long-term experts)

1. Chief Advisor
2. Strengthening WUA
3. Operation and Management of Irrigation systems
4. Project Coordinator

Note: The Chief advisor and/or Project Coordinator may serve concurrently as one of the sector experts.

(Short-term experts)

Short-term experts will be dispatched according to the necessity.

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ANNEX III

LIST OF MACHINERY AND EQUIPMENT

1. Equipment for BISM s and ISDs
  - (1) vehicle
  - (2) water measuring and other devices
  - (3) Office equipment(computer, printer, etc.)
  
2. Equipment for WUAs
  - (1) wheel excavator (mainly for cleanings/maintenances of internal canals, 0.3-0.5m<sup>3</sup>)
  - (2) small vehicle
  - (3) motorbike/bicycle
  - (4) water measuring devices
  - (5) office equipment(computer, printer, etc.)
  - (6) communication tools
  - (7) office furniture

Note: The actual necessity of equipment as well as number and its specification of equipment shall be examined before the procurement. Other equipment mutually agreed upon as necessary for the implementation of the Project will be also provided.

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ANNEX IV

**LIST OF UZBEK COUNTERPART AND ADMINISTRATIVE PERSONNEL**

**1. Project Director**

Deputy Head of Main Department for Water Resources of the Ministry of Agriculture and Water Resources

**2. Project Manager**

Head of Section, Main Department for Water Resources Ministry of Agriculture and Water Resources

**3. Counterparts**

Head of Department of Water Resources Balance & Development of Water Saving Technologies of the Ministry of Agriculture and Water Resources

Head of Melioration Department of the Ministry of Agriculture and Water Resources

Deputy Head of Department for Exploitation of Irrigation Systems of the Ministry of Agriculture and Water Resources

Head of Department of Construction & Organization of Construction Works of the Ministry of Agriculture and Water Resources

Head of Chirchik Ahangaran BISM of the Ministry of Agriculture and Water Resources

Head of Lower Syrdarya BISM of the Ministry of Agriculture and Water Resources

First Deputy Head of Lower Syrdarya BISM of the Ministry of Agriculture and Water Resources of the Ministry of Agriculture and Water Resources

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Annex 4

ANNEX V

### LIST OF BUILDINGS AND FACILITIES

1. Office space, furniture, facilities of communication and public utilities, and meeting rooms necessary for Japanese experts to undertake project activities
2. Other facilities mutually agreed upon as necessary for the implementation of the Project

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ANNEX VI

JOINT COORDINATING COMMITTEE

1. The Joint Coordinating Committee (hereinafter referred to as "JCC") will be organized and meet at least once a year and whenever necessity arises, in order to fulfill the following functions:

- (1) To formulate the annual work plan of the Project
- (2) To review the progress of the Project
- (3) To review and exchange opinions on major issues that may arise during the implementation of the Project
- (4) To discuss any other issue(s) pertinent to the smooth implementation of the Project

2. The JCC members will be as follows:

(1)Uzbek side:

Project Director (Chairperson of the JCC)

Project Manager

Representative(s) of the \*\*\*\*\*

Representative(s) of the \*\*\*\*\*

Representative(s) of the \*\*\*\*\*

*Note: The JCC members of the Uzbek side will be determined by the signing of formal R/D.*

(2)Japanese side:

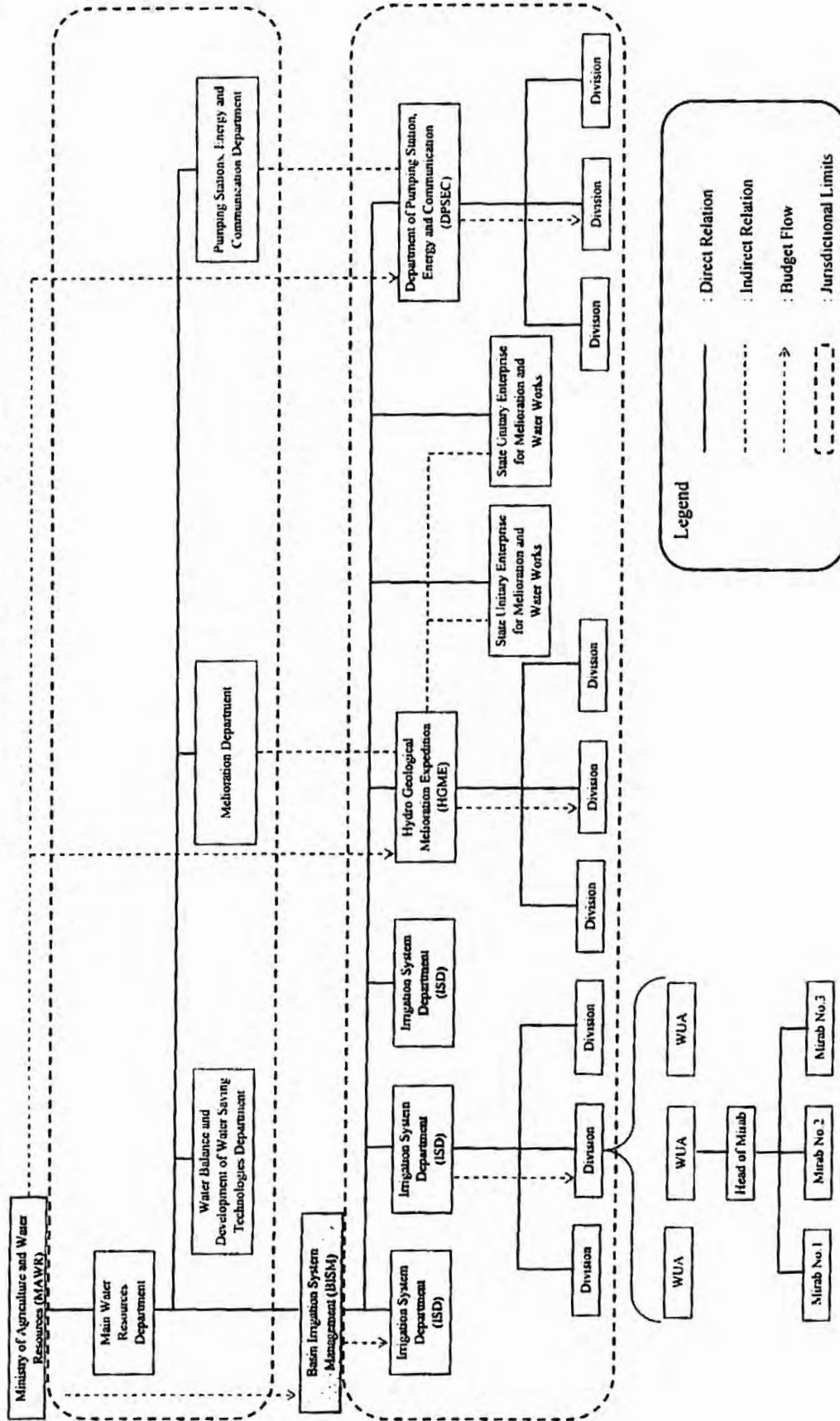
Chief Representative of JICA Uzbekistan Office

Japanese experts

Note:

- Representative(s) of the Embassy of Japan may participate in the JCC as observer(s).
- The Chairperson may invite other related personnel to JCC when necessary.

Relational Diagram of Relevant Organizations on Irrigation and Drainage System in Uzbekistan



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**RECORD OF DISCUSSIONS BETWEEN  
JAPAN INTERNATIONAL COOPERATION AGENCY  
AND  
AUTHORITIES CONCERNED OF THE GOVERNMENT OF  
THE REPUBLIC OF UZBEKISTAN  
ON JAPANESE TECHNICAL COOPERATION  
FOR THE PROJECT FOR WATER MANAGEMENT IMPROVEMENT  
IN THE REPUBLIC OF UZBEKISTAN**

The Chief Representative of the Japan International Cooperation Agency (hereinafter referred to as "JICA") in the Republic of Uzbekistan exchanged views and had a series of discussions with the authorities concerned of the Republic of Uzbekistan with respect to desirable measures to be taken by JICA and the Ministry of Agriculture and Water Resources of the Republic of Uzbekistan for the successful implementation of the Project for Water Management Improvement.

As a result of the discussions, and in accordance with the provisions of the Agreement on Technical Cooperation between the Government of Japan and the Government of Uzbekistan, signed in Tokyo on June 5, 2006 (hereinafter referred to as "the Agreement"), the Chief Representative of JICA and the representatives of the Ministry of Agriculture and Water Resources of the Republic of Uzbekistan agreed to recommend to their respective Governments the matters referred to in the document attached hereto.

Done in duplicate in the English and the Russian languages, both texts shall be equally authentic. In case of any divergence of interpretation, the English text shall prevail.

Tashkent, August 28<sup>th</sup>, 2009

江尻幸彦

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Yukihiko Ejiri  
Chief Representative  
JICA Uzbekistan Office

Shavkat Khamraev

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Shavkat Khamraev  
Deputy Minister  
Ministry of Agriculture and Water  
Resources  
Republic of Uzbekistan



## THE ATTACHED DOCUMENT

### I. COOPERATION BETWEEN JICA AND THE MINISTRY OF AGRICULTURE AND WATER RESOURCES OF THE REPUBLIC OF UZBEKISTAN

1. Ministry of Agriculture and Water Resources of the Republic of Uzbekistan will implement the Project for Water Management Improvement (hereinafter referred to as "the Project") in cooperation with JICA.
2. The Project will be implemented in accordance with the Master Plan which is given in Annex I.

### II. MEASURES TO BE TAKEN BY JICA

In accordance with the laws and regulations in force in Japan and the provisions of Article III of the Agreement, JICA, as the executing agency for technical cooperation by the Government of Japan, will take, at its own expense, the following measures according to the normal procedures of its technical cooperation scheme.

#### 1. DISPATCH OF JAPANESE EXPERTS

JICA will provide the services of the Japanese experts as listed in Annex II. The provision of Articles V, VI, VII and X of the Agreement will be applied to the above-mentioned experts.

#### 2. PROVISION OF MACHINERY AND EQUIPMENT

JICA will provide such machinery, equipment and other materials (hereinafter referred to as "the Equipment") necessary for the implementation of the Project as listed in Annex III. The provision of Article VII of the Agreement will be applied to the Equipment.

#### 3. TRAINING OF UZBEK PERSONNEL IN JAPAN

JICA will receive the Uzbek personnel connected with the Project for technical training in Japan.

### III. MEASURES TO BE TAKEN BY THE MINISTRY OF AGRICULTURE AND WATER RESOURCES OF THE REPUBLIC OF UZBEKISTAN

1. The Ministry of Agriculture and Water Resources of the Republic of Uzbekistan will take necessary measures to ensure that the self-reliant operation of the Project will be sustained during and after the period of Japanese technical cooperation, through full and active involvement in the Project by all related authorities, beneficiary groups and institutions.
2. The Ministry of Agriculture and Water Resources of the Republic of Uzbekistan will ensure that the technologies and knowledge acquired by the Uzbek nationals as a result of the Japanese technical cooperation will contribute to the economic and social development of Uzbekistan.
3. In accordance with the provisions of Articles V and VII of the Agreement, the Government of Uzbekistan will grant in Uzbekistan privileges, exemptions and benefits to the Japanese experts referred to in II-1 above and their families.
4. In accordance with the provisions of Article VII of the Agreement, the Government of Uzbekistan will take the measures necessary to receive and use the Equipment provided by JICA under II-2 above and equipment, machinery and materials carried in by the Japanese experts referred to in II-1 above.
5. The Ministry of Agriculture and Water Resources of Uzbekistan will take necessary measures to ensure that the knowledge and experience acquired by the Uzbek personnel from technical training in Japan will be utilized effectively in the implementation of the Project.
6. In accordance with the provision of Article V of the Agreement, the Ministry of Agriculture and Water Resources of Uzbekistan will provide the services of Uzbek counterpart personnel and administrative personnel as listed in Annex IV.
7. In accordance with the provision of Article V of the Agreement, the Ministry of Agriculture and Water Resources of Uzbekistan will provide the buildings and facilities as listed in Annex V.
8. In accordance with the laws and regulations in force in Uzbekistan, the Ministry of Agriculture and Water Resources of Uzbekistan will take necessary measures to supply or replace at its own expense machinery, equipment, instruments, vehicles, tools, spare parts and any other materials necessary for

the implementation of the Project other than the Equipment provided by JICA under II-2 above.

9. In accordance with the laws and regulations in force in Uzbekistan, the Ministry of Agriculture and Water Resources of Uzbekistan will take necessary measures to meet the running expenses necessary for the implementation of the Project, which includes utility payments, running cost of equipments, communication cost excluding international phone calls.

#### IV. ADMINISTRATION OF THE PROJECT

1. Deputy Head of Main Department for Water Resources of the Ministry of Agriculture and Water Resources, as the Project Director, will bear overall responsibility for the administration and implementation of the Project.
2. Head of Section on Balance of water resources of Main Department for Water Resources of the Ministry of Agriculture and Water Resources, as the Project Manager, will be responsible for the managerial and technical matters of the Project.
3. The Japanese Chief Advisor will provide necessary recommendations and advice to the Project Director and the Project Manager on any matters pertaining to the implementation of the Project.
4. The Japanese experts will give necessary technical guidance and advice to Uzbek counterpart personnel on technical matters pertaining to the implementation of the Project.
5. For the effective and successful implementation of technical cooperation for the Project, a Joint Coordinating Committee will be established whose functions and composition are described in Annex VI.

#### V. JOINT EVALUATION

Evaluation of the Project will be conducted jointly by JICA, Ministry of Agriculture and Water Resources of the Republic of Uzbekistan and other Uzbek authorities concerned, at the middle and during the last six months of the cooperation term in order to examine the level of achievement.

## VI. CLAIMS AGAINST JAPANESE EXPERTS

In accordance with the provision of Article VI of the Agreement, the Government of Uzbekistan undertakes to bear claims, if any arises, against the Japanese experts engaged in technical cooperation for the Project resulting from, occurring in the course of, or otherwise connected with the discharge of their official functions in Uzbekistan except for those arising from the willful misconduct or gross negligence of the Japanese experts.

## VII. MUTUAL CONSULTATION

There will be mutual consultation between JICA and the Ministry of Agriculture and Water Resources of the Republic of Uzbekistan on any major issues arising from, or in connection with this Attached Document.

## VIII. MEASURES TO PROMOTE UNDERSTANDING OF AND SUPPORT FOR THE PROJECT

For the purpose of promoting support for the Project among the people of Uzbekistan, the Government of Uzbekistan will take appropriate measures to make the Project widely known to the people of Uzbekistan.

## IX. TERM OF COOPERATION

The duration of the technical cooperation for the Project under this Attached Document will be 3.5 (three and a half) years starting from the date when the first Japanese expert arrives in Uzbekistan.

- ANNEX I MASTER PLAN OF THE PROJECT
- ANNEX II LIST OF JAPANESE EXPERTS
- ANNEX III LIST OF MACHINERY AND EQUIPMENT
- ANNEX IV LIST OF UZBEK COUNTERPART AND ADMINISTRATIVE PERSONNEL
- ANNEX V LIST OF BUILDINGS AND FACILITIES
- ANNEX VI JOINT COORDINATING COMMITTEE



## MASTER PLAN OF THE PROJECT

### Overall Goal

Water management conducted by WUAs in Chirchik-Ohangaran BISM and Lower Syrdarya BISM is improved.

### Project Purpose

Water management conducted by pilot WUAs is improved.

### Outputs

1. Training system for WUAs is strengthened.
2. Capacity of pilot WUA staff for water distribution is improved.
3. Capacity of pilot WUA staff for maintenance of irrigation and drainage systems is improved.

### Activities

- 1-1. To set criteria for selection of pilot WUAs after surveying the situations of WUAs in the regions and reviewing the existing studies/projects on capacity-building of WUA.
- 1-2. To undertake field surveys of candidate pilot WUAs and select pilot WUAs.
- 1-3. To conduct detailed baseline survey for the select pilot WUAs.
- 1-4. To review the contents of existing teaching materials developed by other donors and the extent of their utilization by WUA.
- 1-5. To prepare training materials (e.g. manuals for WUA, teaching materials for TOT) in relation to output 2 and 3 based on the results of activity 1-4.
- 1-6. To conduct a series of trainings of trainers (TOT) for the staff of BISM and ISDs.
- 1-7. To conduct a series of trainings for leaders of pilot WUAs.
- 2-1. To understand the current situation of water distribution and analyze the problems based on the results of activity 1-3.
- 2-2. To support the formulation of a plan of water distribution through trainings.
- 2-3. To support the implementation of the distribution of irrigation water according to the plan and conduct monitoring based on the plans made through activity 2-2.
- 3-1. To understand the current situation of maintenance of irrigation and drainage

systems, and analyze the problems based on the results of activity 1-3.

- 3-2. To support the formulation of a plan of maintenance of irrigation and drainage systems through trainings.
- 3-3. To support the implementation of rehabilitation works of basic infrastructure of irrigation and drainage systems according to the plans made through activity 3-2.
- 3-4. To support the implementation of periodical maintenance of irrigation and drainage systems according to the plan made through activity 3-2 and conduct monitoring.

**LIST OF JAPANESE EXPERTS**

Fields of expertise to be covered by the Japanese experts are as follows:

(Long-term experts)

1. Chief Advisor
2. Strengthening WUA
3. Operation and Management of Irrigation Systems
4. Project Coordinator

Note: The Chief advisor and/or Project Coordinator may serve concurrently as one of the sector experts.

(Short-term experts)

Short-term experts will be dispatched according to the necessity.

**LIST OF MACHINERY AND EQUIPMENT**

**1. Equipment for BISMs and ISDs**

- (1) Vehicle
- (2) Water measuring and other devices
- (3) Office equipments (computer, printer, etc.)

**2. Equipment for WUAs**

- (1) Wheel excavator (mainly for cleanings/maintenances of internal canals, 0.3-0.5m<sup>3</sup>)
- (2) Small vehicle
- (3) Motorbike/bicycle
- (4) Water measuring devices
- (5) Office equipments (computer, printer, etc.)
- (6) Communication tools
- (7) Office furniture

**Note:** The actual necessity of equipment as well as number and specification of equipment shall be examined before the procurement. Other equipment mutually agreed upon as necessary for the implementation of the Project will be also provided.



**LIST OF UZBEK COUNTERPART AND ADMINISTRATIVE PERSONNEL**

**1. Project Director**

Deputy Head of Main Department for Water Resources of the Ministry of Agriculture and Water Resources

**2. Project Manager**

Head of Section on balance of water resources of Main Department for Water Resources of the Ministry of Agriculture and Water Resources of the Republic of Uzbekistan

**3. Counterparts**

Head of Department of Water Resources Balance & Development of Water Saving Technologies of the Ministry of Agriculture and Water Resources of the Republic of Uzbekistan

Head of Melioration Department of the Ministry of Agriculture and Water Resources of the Republic of Uzbekistan

Deputy Head of Department for Exploitation of Irrigation Systems of the Ministry of Agriculture and Water Resources of the Republic of Uzbekistan

Head of Department of Construction & Organization of Construction Works of the Ministry of Agriculture and Water Resources of the Republic of Uzbekistan

Head of Chirchik-Ohangaran BISM of the Ministry of Agriculture and Water Resources of the Republic of Uzbekistan

Head of Lower Syrdarya BISM of the Ministry of Agriculture and Water Resources of the Republic of Uzbekistan

First Deputy Head of Lower Syrdarya BISM of the Ministry of Agriculture and Water Resources of the Republic of Uzbekistan

**LIST OF BUILDINGS AND FACILITIES**

1. Office space, furniture, facilities of communication and public utilities, and meeting rooms necessary for Japanese experts to undertake project activities
2. Other facilities mutually agreed upon as necessary for the implementation of the Project

## JOINT COORDINATING COMMITTEE

1. The Joint Coordinating Committee (hereinafter referred to as "JCC") will be organized and meet at least once a year and whenever necessity arises, in order to fulfill the following functions:

- (1) To formulate the annual work plan of the Project
- (2) To review the progress of the Project
- (3) To review and exchange opinions on major issues that may arise during the implementation of the Project
- (4) To discuss any other issue(s) pertinent to the smooth implementation of the Project

2. The JCC members will be as follows;

(1)Uzbek side:

- Project Director (Chairperson of the JCC)
- Project Manager
- Representative(s) of the Scientific Production Association "Central Asian Scientific Research Institute of Irrigation"
- Head of Department of Water Resources Balance & Development of Water Saving Technologies of the Ministry of Agriculture and Water Resources of the Republic of Uzbekistan
- Head of Melioration of lands Department of the Ministry of Agriculture and Water Resources of the Republic of Uzbekistan
- Head of Department for Exploitation of Irrigation Systems of the Ministry of Agriculture and Water Resources of the Republic of Uzbekistan
- Head of Department of Construction & Organization of Construction Works of the Ministry of Agriculture and Water Resources of the Republic of Uzbekistan
- Head of Chirchik-Ohangaran BISM of the Ministry of Agriculture and Water Resources of the Republic of Uzbekistan
- Head of Lower Syrdarya BISM of the Ministry of Agriculture and Water Resources of the Republic of Uzbekistan
- First Deputy Head of Lower Syrdarya BISM of the Ministry of Agriculture and Water Resources of the Republic of Uzbekistan

**(2) Japanese side:**

- Chief Representative of JICA Uzbekistan Office**
- Japanese experts**

**Note:**

- Representative(s) of the Embassy of Japan may participate in the JCC as observer(s).**
- The Chairperson may invite other related personnel as observer(s) to JCC when necessary.**

MINUTES OF MEETINGS BETWEEN  
JAPAN INTERNATIONAL COOPERATION AGENCY  
AND  
AUTHORITIES CONCERNED OF THE GOVERNMENT OF  
THE REPUBLIC OF UZBEKISTAN  
ON JAPANESE TECHNICAL COOPERATION  
FOR  
THE PROJECT FOR WATER MANAGEMENT IMPROVEMENT  
IN THE REPUBLIC OF UZBEKISTAN

With regard to the Project for Water Management Improvement (hereinafter referred to as "the Project"), based on the Record of Discussions (hereinafter referred to as "R/D") signed on August ,2009, the Chief Representative of the Japan International Cooperation Agency (hereinafter referred to as "JICA") in the Republic of Uzbekistan had further discussions with the authorities concerned of the Government of Republic of Uzbekistan for the successful implementation of the Project.

As a result of the discussions, both sides agreed on the document attached hereto. The attached document is subject to change within the framework of the R/D when the necessity arises in the course of implementation of the Project.

Tashkent, August 28<sup>th</sup>, 2009

江尻幸彦

Yukihiko Ejiri  
Chief Representative  
JICA Uzbekistan Office

Shavkat

Shavkat Khamraev  
Deputy Minister  
Ministry of Agriculture and Water  
Resources  
Republic of Uzbekistan

## THE ATTACHED DOCUMENT

### 1. Project Design Matrix (PDM) and Plan of Operation (PO)

Both sides agreed on the first version of PDM and PO of the Project as ANNEX I and II. PDM and PO will be utilized for monitoring and evaluation of the Project.

Any modifications on PDM and/or PO, if necessary in the course of Project implementation, shall be discussed by both sides and agreed by a written document signed by both sides.

### 2. Major points that were discussed and agreed upon by both sides

#### (1) Pilot WUAs

The number of pilot WUAs for the Project should be limited as six (6) WUAs in total (two(2) pilot WUAs from each targeted region).

Both sides confirmed the details of the six (6) pilot WUAs as follows:

- 1) It is required that two (2) pilot WUAs in each region are under the management of the same ISD and the same Division.
- 2) It is required that two (2) pilot WUAs in each region are basically under the same irrigation canal system and adjacent to each other.
- 3) The two (2) pilot WUAs in each region will be prioritized as follows: One (1) pilot WUA will start activities in the first year (*First Batch*). Another pilot WUA will start activities in the following year (*Second Batch*).
- 4) The whole command area of the selected pilot WUAs will be regarded as the target areas, however, a model area will be determined within each pilot WUA for intensive repair works of canals.
- 5) Aiming at smooth implementation of the activities, it is required that the model areas in the pilot WUAs of the same regions are adjacent to each other.
- 6) Due to limitation of JICA's budget, wheel excavator and small vehicle will be provided only for the pilot WUAs of *First Batch*.
- 7) C/Ps will mainly conduct the activities for the pilot WUAs of *Second Batch* based on the experience of the activities for the pilot WUAs of *First Batch*. The Japanese experts will support activities in the pilot WUAs of *Second Batch* through guidance to C/Ps.
- 8) The Objectively Verifiable Indicators of Project purpose and Outputs will be determined after the commencement of the Project. The

numerical indicators for the *First Batch* and those for the *Second Batch* will be set differently since the duration of activities as pilot WUAs and the degree of involvement of the Japanese experts are different.

(2) Demonstration site(s) on “drip irrigation technology”

The Uzbek side expressed its strong intension to create demonstration site(s) on “drip irrigation technology” within the Project. JICA explained that it might be included as part of the Activity 2-3.

ANNEX I Project Design Matrix (PDM)

ANNEX II Plan of Operation (PO)



## ANNEX I

## Project Design Matrix (PDM)

Project Title: Project for Water Management Improvement

Target Area:

- Tashkent Region (under Chirchik-Ohanggan BISM)
- Syrdarya Region (under Lower Syrdarya BISM)
- Dzhirgatal Region (under Lower Syrdarya BISM)

Project Period : 3.5 years (from November 2009 to April 2013)  
Target Groups: 6 pilot WUAs (2 from each region)

Narrative Summary		Objectively Verifiable Indicators	Means of Verification	Important Assumptions
Water management conducted by WUAs in Chirchik-Ohanggan BISM and Lower Syrdarya BISM is improved.		<p>1. Gap between planned and actual quantity of distribution water is decreased from - % to - % in the target regions.</p> <p>2. Water is distributed on time in the target regions.</p> <p>3. Water loss in the process of distribution is decreased by - % in the target regions.</p>	Baseline survey Water distribution record of WUAs	The current policy on water management is maintained.
Water management conducted by pilot WUAs is improved.		<p>1. Gap between planned and actual quantity of distribution water is decreased from - % to - % in the command area of the pilot WUAs.</p> <p>2. Water is distributed on time in the command area of the pilot WUAs.</p> <p>3. Water loss in the process of distribution is decreased by - % in the command area of the pilot WUAs.</p>	Baseline survey Water distribution record of WUAs Report from Project	Staff of ISDs in the target regions participate in TOT.
1. Training system for WUAs is strengthened.		<p>1-1. More than - kinds of training materials for pilot WUA staff prepared.</p> <p>1-2. More than - staff of BISM and ISDs participated in TOT and able to conduct training for WUA staff.</p> <p>1-3. More than - times of trainings for pilot WUA staff conducted.</p>	Baseline survey Report from Project	Trained staff of BISM and ISDs continue to work.
2. Capacity of pilot WUA staff for water distribution is improved.		<p>2-1. More than - staff of pilot WUAs participated in the trainings on water distribution.</p> <p>2-2. Water distribution plan formulated every year based on the trainings by pilot WUAs.</p> <p>2-3. Water distribution records kept based on the trainings by pilot WUAs.</p>	Baseline survey Water distribution record of WUAs Report from Project	Trained staff of pilot WUAs continue to work.
3. Capacity of pilot WUA staff for maintenance of irrigation and drainage systems is improved.		<p>3-1. More than - staff of pilot WUAs participated in the trainings on maintenance of irrigation and drainage systems.</p> <p>3-2. Maintenance plan formulated every year based on the trainings by pilot WUAs.</p> <p>3-3. Maintenance records kept based on the trainings by pilot WUAs.</p>	Baseline survey Maintenance record of WUAs Report from Project	Staff of BISM and ISDs continuously participate in the activities and trainings.
1-1. To set criteria for selection of pilot WUAs after surveying the situations of WUAs in the regions and reviewing the existing studies/projects on capacity-building of WUA.		<p>Japanese side :</p> <p>1. Dispatch of Experts (1) Long-term experts - Chief Adviser - Strengthening WUA - Operation and Maintenance of Irrigation Systems - Project Coordinator Chief advisor and/or Project Coordinator may serve concurrently as one of the sector experts.</p> <p>(2) Short-term Experts</p> <p>2. Provision of Equipment</p> <p>3. Training for Counterparts</p> <p>4. Allocation of Operational Costs for the Project</p>	<p>Uzbek side :</p> <p>1. Assignment of counterpart personnel (1) Project Director (2) Project Manager (3) Counterparts at central level (4) Counterparts at local level</p> <p>2. Provision of Land, Building and Facilities (Both central and local level)</p> <p>3. Allocation of operational costs for the Project (staff's salary, utilities at offices, etc.)</p>	Staff of BISM and ISDs continuously participate in the activities and trainings.
1-2. To undertake field surveys of candidate pilot WUAs and select pilot WUAs.				
1-3. To conduct detailed baseline survey for the selected pilot WUAs.				
1-4. To review the contents of existing teaching materials developed by other donors and the extent of their utilization by WUA.				
1-5. To prepare training materials (e.g. manuals for WUA, teaching materials for TOT) in relation to output 2 and 3 based on the results of activity 1-4.				
1-6. To conduct a series of trainings of trainers (TOT) for the staff of BISM and ISDs.				
1-7. To conduct a series of trainings for leaders of pilot WUAs.				
2-1. To understand the current situation of water distribution and analyze the problems based on the results of activity 1-3.				
2-2. To support the formulation of a plan of water distribution through trainings.				
2-3. To support the implementation of the distribution of irrigation water according to the plan made through activity 2-2 and conduct monitoring.				
3-1. To understand the current situation of maintenance of irrigation and drainage systems, and analyze the problems based on the results of activity 1-3.				
3-2. To support the formulation of a plan of maintenance of irrigation and drainage systems through trainings.				
3-3. To support the implementation of rehabilitation works of basic infrastructure of irrigation and drainage systems according to the plan made through activity 3-2.				
3-4. To support the implementation of periodical maintenance of irrigation and drainage systems according to the plan made through activity 3-2 and conduct monitoring.				
Pre-conditions		Important facilities/systems of irrigation and drainage are functional in the target regions.		

Date: July 30, 2009



### Plan of Operation (PO)

		2009												2010												2011												2012												2013			
		11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4																						
Outputs	Activities																																																				
	1-1. To set criteria for selection of pilot WUAs after surveying the situations of WUAs in the regions and reviewing the existing studies/projects on capacity-building of WUA.																																																				
	1-2. To undertake field surveys of candidate pilot WUAs and select pilot WUAs.																																																				
	1-3. To conduct detailed baseline survey for the selected pilot WUAs.																																																				
Output 1: Training system for WUAs is strengthened.	1-4. To review the contents of existing teaching materials developed by other donors and the extent of their utilization by WUA.																																																				
	1-5. To prepare training materials (e.g. manuals for WUA, teaching materials for TOT) in relation to output 2 and 3 based on the results of activity 1-4.																																																				
	1-6. To conduct a series of trainings of trainers (TOT) for the staff of BISM and ISDs.																																																				
	1-7. To conduct a series of trainings for leaders of pilot WUAs.																																																				
Output 2: Capacity of pilot WUA staff for water distribution is improved.	2-1. To understand the current situation of water distribution and analyze the problems based on the results of activity 1-3.																																																				
	2-2. To support the formulation of a plan of water distribution through trainings.																																																				
	2-3. To support the implementation of the distribution of irrigation water according to the plan made through activity 2-2 and conduct monitoring.																																																				
2nd Batch	2-1. To understand the current situation of water distribution and analyze the problems based on the results of activity 1-3.																																																				
	2-2. To support the formulation of a plan of water distribution through trainings.																																																				
	2-3. To support the implementation of the distribution of irrigation water according to the plan made through activity 2-2 and conduct monitoring.																																																				
Output 3: Capacity of pilot WUA staff for maintenance of irrigation and drainage systems is improved.	3-1. To understand the current situation of maintenance of irrigation and drainage systems, and analyze the problems based on the results of activity 1-3.																																																				
	3-2. To support the formulation of a plan of maintenance of irrigation and drainage systems through trainings.																																																				
	3-3. To support the implementation of rehabilitation works of basic infrastructure of irrigation and drainage systems according to the plans made through activity 3-2.																																																				
	3-4. To support the implementation of periodical maintenance of irrigation and drainage systems according to the plan made through activity 3-2 and conduct monitoring.																																																				
1st Batch	3-1. To understand the current situation of maintenance of irrigation and drainage systems, and analyze the problems based on the results of activity 1-3.																																																				
	3-2. To support the formulation of a plan of maintenance of irrigation and drainage systems through trainings.																																																				
	3-3. To support the implementation of rehabilitation works of basic infrastructure of irrigation and drainage systems according to the plans made through activity 3-2.																																																				
	3-4. To support the implementation of periodical maintenance of irrigation and drainage systems according to the plan made through activity 3-2 and conduct monitoring.																																																				
2nd Batch	3-1. To understand the current situation of maintenance of irrigation and drainage systems, and analyze the problems based on the results of activity 1-3.																																																				
	3-2. To support the formulation of a plan of maintenance of irrigation and drainage systems through trainings.																																																				
	3-3. To support the implementation of rehabilitation works of basic infrastructure of irrigation and drainage systems according to the plans made through activity 3-2.																																																				
	3-4. To support the implementation of periodical maintenance of irrigation and drainage systems according to the plan made through activity 3-2 and conduct monitoring.																																																				





