

## Course Description

### Programme1: Improvement of Institutional and Financial Set-up (IIF)

#### **1. Background:**

Iraq, where the one of the oldest civilizations was born, has historically enjoyed considerable amount of water resources with two big river systems despite the fact that its annual precipitation is less than 200mm in most of its territory. Number of dams and reservoirs as well as water treatment facilities had been constructed during 60's to 80's that enabled to develop large scale irrigations throughout the basins and supply treated water to the most of the citizens in urban areas.

However, due to the constructions of huge dams in the upper streams and lack of coordination system among neighboring countries, the available water has been decreased drastically. Chronic conflicts since 80's, the economic sanctions and the looting after the recent war have made situation much worse.

Compared to the data before the Gulf War, amount of unit water supply has been declined by 30% in the urban area and about half in the rural area.

Water leakage and inefficient operation and maintenance practices are affecting much to the shortage. Though the water treatment capacity in Baghdad Mayoralty is about 2.3MCM, about 50 to 60 % of treated water is reported to be non-revenue-water (NRW). Rehabilitation of facilities such as water treatment plants, pipelines and meters are urgently needed. Introduction of appropriate technical measures through technical assistance are no less important to maximize and sustain the service delivery.

Efficiency of administration and management of water authorities is another crucial issue. Laws and regulatory frameworks need to be reviewed and adjusted to the requirements of current environments in the first place. Considering the fact that only 10% of consumers in Baghdad are equipped with meters, and water income doesn't satisfy even the cost for operation and maintenance, financial set-up, especially tariff scheme and billing system, has to be studied and improved immediately.

#### 2. Purposes and expected outcomes:

The purpose of this program (IIF) is to study the current institutional and financial set up of the Baghdad Water Authority (BWA), and propose feasible measures for improvement of its efficiency.

- Participants are expected to:

- (1) Collect data on laws and regulation, accounting and finance, tariff and billing data and bring them to the training,
- (2) Understand and get familiarized with concept of (a) laws and regulations (water policy, laws and regulations, organizational arrangement), (b) finance and accounting (financial analysis and planning, accounting, asset management, procurement and contract), (c) tariff and billing (watering contract, metering, billing and collection, tariff scheme),
- (3) Discuss and study the problems of current laws and regulations, finance and accounting system, tariff and billing system in Baghdad, and propose a feasible measures for improvement,

### 3. Implementing Arrangement

IIF shall be organized by Japanese experts in cooperation with Water Authority Jordan (WAJ) resources.

### 4. Schedule of the Course

Schedule Consultant	2006										2007			remarks
	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar		
Training Schedule	Practice in Iraq			Practice in Iraq						Practice in Iraq				

 : Training in Jordan  
 : Practice in Iraq

\* Schedule maybe subject to change.

### 5. Qualification and number of Applicants

IIF focuses on promising middle class engineers (not DG classes) at BWA. Qualification details are below:

- Number of participants: Ten (10)
- Qualification: Guiding principles for selecting applicants are as follows:
- Participants should be under forty five (45) years old.
- Three (3) should be responsible for laws and regulations,
- Three (3) should be responsible for finance and accounting,
- Four (4) should be responsible for tariff and billing,

NOTE: Since IIF consists of three consecutive stages, same participants are requested to be attending from 1<sup>st</sup> stage to 3<sup>rd</sup> stage in principle except those who found to be unqualified for the requirements of the IIF.

## 6. Course Curriculum (PROVISIONAL)

### Stage-1:

#### Purposes:

- Presentation on laws and regulations, financial and accounting system, tariff and billing system in Baghdad by BWA participants,
- Lecture and discussion on laws and regulations, financial and accounting system, tariff and billing system,
- Work plan for 2<sup>nd</sup> stage and 3<sup>rd</sup> stage,

(1<sup>st</sup> to 11<sup>th</sup> July)

Day	Date	Training Item	Person in charge	Training Contents
1	1	Arrival in Amman		
2	2	Orientation Presentation by the BWA participants, Discussion	BAW participants	Release of individual situation of BWA based on advance questionnaire
3	3	Laws & Regulations (Water Policy, laws, regulations, organizational arrangement)	Participants JICA Experts	Lecture on legal framework & organization of BWA, discussion
4	4	Ditto	Participants JICA Experts	National Water policy, Basic Act for water supply, Regulation, Organization, discussion
5	5	Finance & Accounting (financial analysis, planning, accounting, assets management, Procurement, contract)	Participants JICA Experts	Lecture on financial subjects- planning, analysis, Accounting, assets management, procurement, Contract, discussion
6	6	Ditto	Participants JICA Experts	-continued
7	7	Off		
8	8	Tariff, Billing (Watering contract, metering, billing, collection, tariff schedule)	Participants JICA Experts	Lecture on Tariff collection related works- water supply contract, water services, meter reading, billing, collection, unpaid rates, Tariff practices
9	9	Ditto	Participants JICA Experts	-continued
10	10	Discussion & Wrap-up	Participants JICA Experts	Discussion
11	11	Departure		

### Stage-2:

#### Purposes:

- Lecture and discussion on laws and regulations, financial and accounting system, tariff and billing system,
- Proposition and discussion of draft outline for improvement of laws and regulations,

financial and accounting system, tariff and billing system,

(18<sup>th</sup> to 24<sup>th</sup> November)

Day	Date	Training Item	Person in charge	Training contents
1	18	Arrival in Amman		
2	19	Presentation by BWA participants, Discussion	Participants, JICA Experts	
3	20	Proposition of the outline of draft outline for improvement of laws and regulations, financial and accounting system, tariff and billing system	Participants, JICA Experts	
4	21	Ditto	Participants, JICA Experts	
5	22	ditto	Participants, JICA Experts	
6	23	Lecture on WAJ Wrap up	Participants, JICA Experts	
7	24	Departure for Baghdad		

Stage-3:

Purposes:

- Discussion and finalizing feasible measures for improvement of laws and regulations, financial and accounting system, tariff and billing system.

(20<sup>th</sup> to 26<sup>th</sup> January, 2007)

Day	Date	Training Item	Person in charge	Training contents
1	20	Arrival in Amman		
2	21	Presentation by BWA participants, Discussion	Participants, JICA Experts	
3	22	Discussion and finalizing feasible measures for improvement of laws and regulations, financial and accounting system, tariff and billing system	Participants, JICA Experts	
4	23	Ditto	Participants, JICA Experts	
5	24	ditto	Participants, JICA Experts	
6	25	Presentation and Wrap up	Participants, JICA Experts	
7	26	Departure for Baghdad		

END