

## United Nations Development Group Iraq Trust Fund

**Project #:E3-18**

**Date and Quarter Updated: 4<sup>th</sup> Quarter, 1<sup>st</sup> October to 31<sup>th</sup> December 2011**

<b>Participating UN Organisation:</b> UNOPS, UNICEF	<b>Sector:</b> : (WATSAN)
<b>Government of Iraq – Responsible Line Ministry:</b> Ministry of Municipalities and Public Works (MMPW)/ MoMT/KRG	

<b>Title</b>	Strengthening Capacity for Management of Unaccounted-For Water (UFW)				
<b>Geographic Location</b>	Nation Wide with two specific pilot areas in Anbar and Najaf Governorates				
<b>Project Cost</b>	US\$2,850,100, (UNOPS part= 1,831,638 UNICEF part = US\$1,018,462)				
<b>Duration</b>	18 months				
<b>Approval Date (SC)</b>	11.04.2010	<b>Starting Date</b>	30.04.2010	<b>Completion Date</b>	31.10.2011 extended to 31.05.2012
<b>Project Description</b>	Strengthening Capacity for Management of Unaccounted-For Water (UFW) Programme takes an integrated approach through a joint UNOPS and UNICEF participation, where the capacity of the two agencies are used to address the water consumption reduction due to the non-availability of water in reference to quality and quantity of water.				

### Development Goal and Immediate Objectives

The Development Goal of the project is to enhance the capacity of the governorate staff, which will lead to improved water management in the two governorates in line with goals set by the National Development Strategy for Iraq long-term objectives for 2007-2010 and the objectives of the International Compact Iraq as described in the Results Framework under NDS/ICI Priorities benefitting the Iraqi population in the 18 governorates of Iraq.

#### Immediate objectives:

1. To provide a comprehensive purpose-based training in management of Unaccounted for Water (UFW) for the MMPW, Governorate Departments and the Governorate Councils in the 18 governorates, specifically for the personnel's working in Water Authorities.
2. The counterparts' capacity will be strengthened in WatSan management
3. Enhanced access to safe water through the provision of specialised equipment.

### Outputs, Key activities and Procurement

<b>Outputs</b>	<ol style="list-style-type: none"> <li>1.1. MMPW/directorates of municipalities' governorates are able to deliver and monitor water services.</li> <li>1.2. Water authorities in 18 governorates have improved capacities in water management.</li> <li>1.3. Water treatment plants personnel within the selected governorate are able to put in place water audit mechanism</li> <li>1.4. MMPW, governorate water departments offices are better able to plan and provide improved water audit services in addition to proper management of UFW within the governorates</li> </ol>
<b>Activities</b>	<ol style="list-style-type: none"> <li>1. Water Authority Engineers (1,000 person days of cumulative training) will be trained on management of UFW and Water Audit.</li> <li>2. Senior Management staff (400 person days of cumulative training) of the Water Authority trained on comprehensive Water Audit.</li> <li>3. DMA methodology will be used to measure water consumption in two pilot areas, one each in Anbar and Najaf governorate.</li> <li>4. Water Audits of major water treatment plants in Anbar and Najaf conducted</li> <li>5. Procurement of leak (water) detection equipments for all the 18 governorates.</li> <li>6. Assist in the formation of a UFW Administrative work group within the ministry and the governorates</li> </ol>
<b>Procurement</b>	Procurement of water detection leak equipments for all the 18 governorates to carry out the UFW activities.

## UNOPS

<b>Funds Committed</b>	US\$1,527,634	<b>% of approved</b>	84
<b>Funds Disbursed</b>	US\$1,142,133	<b>% of approved</b>	63
<b>Forecast final date</b>	31.05.2012	<b>Delay (months)</b>	7
<b>UNICEF</b>			
<b>Funds Committed</b>	US\$662,044.86	<b>% of approved</b>	68
<b>Funds Disbursed</b>	US\$368,494.08	<b>% of approved</b>	38
<b>Forecast final date</b>	31.05.2012	<b>Delay (months)</b>	7

Direct Beneficiaries	Number of Beneficiaries	% of planned (current status)
Men	10,000	50
Women		
Children		
IDPs		
Others	<ul style="list-style-type: none"> <li>• 40 technical staff from MMPW and MMT/KRG will receive training on UFW Subject</li> <li>• 400 person days' management staff from MMPW, MoB and MMT/KRG will receive training on water management.</li> </ul>	97,5 (UNOPS trained 39 staff against 40)  100 (UNICEF trained 94 staff, 46 in Amman, 10 in Erbil, 21 in Baghdad and 17 in Najaf & 12 in Kenya / Nairobi )
Indirect beneficiaries	100,000	50
Employment generation (men/women)	200	50

Quantitative achievements against objectives and results		% of planned
Establishment of DMA	<p>UNOPS appointed a Site Engineer, who co-ordinated with the water authority to collect the water network drawings and prepare the BoQ and contract document for the establishment of the DMA.</p> <p>Following an initial delay in handover of the plans from the water authorities, the ITB was published on November 15, 2010 with a deadline for submission of bids set for December 15, 2010. On the last date of submission, the project received 4 bids which were evaluated and resulted in a recommendation for award of contract to the best of the lowest-cost bidders.</p> <p>The contract was awarded to SGI Studio Galli Ingegneria S.p.A., Italy on Feb 9, 2011 and it was agreed that the Water Authorities would hand over the DMA site by the beginning of April, 2011 so that the contractor could start the works towards mid April 2011.</p> <p>In accordance, the contractor completed the data collection for the establishment of two DMAs at Ramadi and Najaf and measured the Minimum Night Flow (MNF) A final report with leakage loss in the systems was completed and submitted to UNOPS The finding was shared with water authority. The result of this study can be used as basis for water leakage loss estimates in system.</p>	100%
Procurement of UFW equipments	<p>The specification was prepared and submitted to the Directorate of Water, Ministry of Municipalities and Public Works on 17 March 2011 for approval before proceeding for procurement.</p> <p>The Directorate gave its approval for procurement of LD equipments. An ITB was published on 26<sup>th</sup> of April 2011 with a deadline for submission set for the 16<sup>th</sup> of May 2011 for the procurement of leak detection equipments.</p> <p>5 bids were received and Seba Dynatronic was awarded the contract on 24 October 2011 to supply the leak detection equipments. The equipments will be supplied and distributed by end of January 2012.</p>	90%

Comprehensive Training on Management of UFW	<p>An RFQ was published on the 27<sup>th</sup> of September 2010 with a deadline for submission set for the 12<sup>th</sup> of October 2010 for the procurement of a training firm. Four bids were received and evaluated as per the bid document. On October 27, 2010, the contract was awarded to the best of the lowest-cost bidders. The training provider successfully trained 39 engineers from all over Iraq from January 2 to 6, 2011 in Erbil (theoretical part) followed by the practical part in Amman, Jordan from February 13 to 28, 2011. One of the engineers originally planned to participate in the training from the Najaf Water Directorate was unfortunately unable to attend due to personal reasons. Hence the final number of participants was 39 instead of 40 as originally planned.</p> <p>UNOPS site engineer was present during the training to facilitate/co-ordinate with the participants and training provider.</p> <p>UNOPS received the final training report from training provider.</p>	100%
Monitoring and Supervision contract	A Technical facilitator has been appointed by UNICEF to carry out the needed assessments in coordination with local authorities. Field assessments in Anbar & Najaf are completed, Bills of quantities for construction flow meters concrete chambers have been prepared , endorsed and sent for bidding, bidding process for AL-Najaf activities has finalized while for Anbar it will be rebidding.	60%
Capacity development of Senior Management staff on comprehensive Water Audit and Unaccounted for Water	<p>The RFP was issued and three offers were received and opened on the 4th of January 2011. A contract was awarded to the best lower bidder, training were completed, 46 staff members trained in Amman, 10 in Erbil, 21 in Baghdad and 17 in Najaf. The participants reported their full appreciation of the presented topics and the highly skilled trainers, they also asked for an expansion of such sessions and recommend conducting a high level workshop to advocate for the importance of the UFW and NRW management and its impact on Iraq.</p> <p>Additional training sessions on UFW were successfully completed in Kenya / Nairobi starting from 04 to 09- Sep.-2011, 12 trainees from different Iraqi Authorities participated. Certificates, training materials, folders and CDs have been distributed to all participants, and final report was also received by UNICEF, Additional training on the installation of flow meters and accessories will be conducted as soon as the equipment is delivered to the governorates. Accordingly, budget revision will be requested to transfer the surplus funds from procurement and construction of valve chambers items to conduct the training</p>	100%
Media Intervention	Awareness campaigns using media messages in coordination with GDW are on-going, and two TV spots on water conservation were prepared and broadcasted in Iraqi Satellite TVs. A water sector challenges meeting was held with the attendance of participants from different authorities. UFW was the main highlighted challenge in this meeting. It is planned to conduct amgeneral conference on Water Safety plan & Adequacy Plan in which representatives from different concerned authorities & partners will participate.	80%
Procurement of equipment and accessories for WTPs	<p>Technical Specifications for flow meters were identified, and PGMs issued and sent to the supply section in Copenhagen, the procurement will be finalized soon. Two purchase orders have been issued as follow:</p> <p>PO no. 45118959 with amount of 62,429.66 for Anbar equipment</p> <p>PO no. 45118963 with amount of 87,283.30 for Al-Najaf equipment</p>	65%

#### **Qualitative achievements against objectives and results**

The training on management of UFW was completed successfully and UNOPS received the final report from the training company. The trained water authority's staff is now able to manage the UFW activities better, thereby reducing the chances of water contamination and related water born diseases.

The contract for DMA establishment was awarded to SGI Studio Galli Ingegneria S.p.A., Italy on Feb 9, 2011. The Water Authorities as agreed handed over the DMA sites on 6<sup>th</sup> and 7<sup>th</sup> of April 2011 for Najaf and Ramadi respectively to start the establishment of DMA. The contractor completed the establishment of two DMAs one each at Ramadi and Najaf and measured the MNF to establish the leakage losses. A final report with leakage loss in the systems was completed and submitted to UNOPS The finding was shared with water authority. The result of this study which covers the leakage in the smaller District Metered Areas only, can be used as basis to estimate the water leakage loss in the entire systems in the two locations. Once this is calculated, the water authorities can start the active UFW control programmes to actually reduce losses in the systems.

For procurement of LD equipments, an ITB was announced and as response to the same, 5 bids were received. The Seba Dynatronic Mess was awarded the contract on 24 October 2011 to supply the leak detection equipments which will be supplied and distributed by end of January 2012.

The overseas and in country trainings of senior management staff of water authority were successfully completed, UNICEF has received the final report . PGMs for the needed equipment were issued and send to UNICEF supply section in Copenhagen for procurement, The procurement process in Copenhagen supply division was done, Two purchase orders have been issued as follow:

PO no. 45118959 with amount of 62,429.66 for Anabr equipment

PO no. 45118963 with amount of 87,283.30 for Al-Najaf equipment

On the ground a work plan for construction flow meters concrete chambers was prepared, bill of quantities endorsed by both Anbar & Najaf water directorates and sent for bidding. The bidding process for AL-Najaf activities was finalized while for Anbar it will be rebidding. Installation of the flow meters will be done as soon as the equipment is delivered to the concerned governorates and the civil work is completed. The water supply will be brought back to normal once the flow meter is installed. UNICEF has also supported the producing of two TV-Spots which were broadcasted on the occasion of world water day; the physical part of the project will be started as soon as the flow meters are received. UNICEF is also planned to conduct a workshop on Water Safety & Adequacy Plan in which representatives from different concerned Authorities & partners will participate.

#### **Main implémentation contraints & challenges (2-3 sentences)**

An initial delay in obtaining the required water supply system plans from Najaf and Ramadi Water Authorities delayed the preparation of bid documents for award of contract for DMA establishment and was the main constraint for initial progress. UNOPS Site Engineers coordinated closely with the Najaf and Ramadi Water directorates and handed over the sites successfully during the third quarter of the year 2011.

Presently, the internal customs clearance process for the leak detection equipment in the Iraqi administration is taking longer time than expected, holding up final delivery of the equipment and distribution to the governorates. UNOPS is following the matter closely to be able to complete this component as soon as all permissions are obtained.

The main constrains that UNICEF faced are:

- Delay in procurement process at Supply section in Copenhagen
- Delay in delivering the equipment
- Delay in finalizing bidding process of the physical work

However, the procurement has been completed and the supplies supposed to be delivered within the third week of January 2012.