

**United Nations Development Group Iraq Trust Fund**

**Project #:E3-18**

**Date and Quarter Updated: 1<sup>st</sup> Quarter, 1<sup>st</sup> January to 31<sup>th</sup> March 2012**

<b>Participating UN Organisation:</b> UN Office for Project Services (UNOPS) and United Nations Children Fund (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 April 2010	<b>Starting Date</b>	April 30 2010	<b>Completion Date</b>	30 November 2011 Extended till 31 May 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.				
<b>Development Goal and Immediate Objectives</b>					
<p>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.</p> <p><b>Immediate objectives:</b> 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. The counterparts' capacity will be strengthened in WatSan management. Enhanced access to safe water through the provision of specialised equipment.</p>					
<b>Outputs, Key activities and Procurement</b>					
<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 equipment 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 major items</b>	Procurement of water detection leak equipment for all the 18 governorates to carry out the UFW activities.				

<b>UNOPS Fund Committed</b>	US\$1,527,634	<b>% of approved</b>	84
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<b>UNOPS Fund Disbursed</b>	US\$1,510,536	<b>% of approved</b>	83
<b>UNICEF Fund Committed</b>	US\$742,337.21	<b>% of approved</b>	77
<b>UNICEF Fund Disbursed</b>	US\$528,427.21	<b>% of approved</b>	55
<b>Quantitative achievements against objectives and results</b>			
<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>		<b>% of planned</b>	100%
<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.</p> <p>Seba Dynatronic was awarded the contract on 24 October 2011 to supply the leak detection equipment. The equipment has arrived at the beginning of December 2011, however, it is still in customs pending a customs clearance letter from the Water Directorate. This is taking more time than expected and delaying the distribution of equipment to the governorates.</p>		<b>% of planned</b>	92%
<p>39 engineers from all over Iraq were successfully trained 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 the training provider.</p>		<b>% of planned</b>	100%
<p>Two technical facilitators have been appointed by UNICEF to carry out required assessments in coordination with the local authorities. Field works including construction of manholes for UFW equipment have been started in both Najaf &amp; Anbar.</p>		<b>% of Planned</b>	65%
<p>Training on comprehensive water audit and UFW was completed for 46 staff members from the water directorates (management staff involved with the water sector from MMPW (Ministry of Municipalities and public works), MoB (Mayoralty of Baghdad) and MMT/KRG (Ministry of Municipalities and Tourism in Kurdistan)) 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 Non- Revenue Water (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</p>		<b>% of Planned</b>	77%

<p>Training on the installation of flow meters and accessories will be conducted in Amman for 20 Staff from MMPW, MoB and MMT/KRG within the first week of May 2012. Additional training on software for 12 staff is to be conducted soon.</p>		
<p>Awareness campaigns using media messages in coordination with General directorate of Water are on-going and two TV spots on water conservation were broadcasted in Iraqi Satellite TV channels. A water sector challenges meeting was held with the attendance of participants from different authorities. UFW was the main highlighted challenge in this meeting. Plans are underway to conduct general conference on Water Safety plan</p>	<p><b>% of Planned</b></p>	<p>85%</p>
<p>UFW equipment including flow meters, pressure transmitters, data loggers and cables were delivered to UNICEF Warehouses in Baghdad and will be delivered to both Najaf &amp; Anbar as soon as construction of concrete chambers for installation of water meters are completed. Procurement of computers and tapping devise is on-going. Staff who will be trained on the installation of flow meters and accessories in Amman will carry out the installation of UFW equipment, software including handbooks on Planning, Design, operation and maintenance of Water facilities were distributed to directorates of water in ten governorates.</p>	<p><b>% of Planned</b></p>	<p>70%</p>
<p><b>Qualitative achievements against objectives and results</b></p>		
<p>The training on management of UFW was completed successfully and UNOPS received the final report from the training company. The trained water authority's staffs is now able to manage the UFW activities better, thereby reducing the chances of water contamination and related water borne 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 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. The leak detection equipment was supplied by the selected contractor at the beginning of December 2011 could not be distributed to the directorates due to a delay in providing the customs and tax clearance letter for the equipment from the water directorate.</p> <p>The overseas and in country trainings of senior management staff of the water authority were successfully completed, UNICEF has received the final report. The procurement process in the Copenhagen supply division was completed. UFW equipment has been delivered to UNICEF warehouses in Baghdad and it will be delivered to both Najaf and Anbar soon, software including handbooks on Planning, Design, operation and maintenance of Water facilities were distributed to directorates of water in ten governorates.</p> <p>On the ground, the construction of concrete chambers for flow meters was started in both Najaf &amp; Anbar. 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. UNICEF has also supported the production of two TV-spots which were broadcasted on the occasion of world water day.</p>		
<p><b>Main implementation constraints &amp; challenges (2-3 sentences)</b></p>		
<p>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. The main constraint that UNICEF faced was the delay in the in-house procurement process which was due to the introduction of a new management system.</p>		