United Nations Development Group Iraq Trust Fund Project #:A5-21

Date and Quarter Updated: September 2010 (3rd Quarter)

Participating UN Organisation: UNESCO Sector: AFSSOT
Government of Iraq – Responsible Line Ministry: Ministry of Agriculture and Water Resources

Title	Rehabilitation and conservation of Kahrez systems in the Northern Governorates				
Geographic Location	Northern governorates (Erbil, Dohuk, Sulaymaniyah)				
Project Cost	US \$ 1,600,628				
Duration	21 months (extended 17 months)				
Approval Date	10 Apr 2007	Starting	10 Apr 2007	Completion	10 July 2008
		Date		Date	extended to
					31.12.2010
Project Description	The project is aimed at increasing the water supply in rural areas through the				
	rehabilitation and conservation of the traditional Kahrez water management system.				

Development Goal and Immediate Objectives

The overall goal is to improve supply of water for drinking and for irrigation in rural areas of the Northern Governorates through rehabilitation and conservation of the traditional Kahrez water management system. The immediate objectives are (1) to rehabilitate and conserve Kahrez water systems; (2) to build technical capacity in the long-term rehabilitation and maintenance of traditional Kahrez systems; and (3) networking with concerned institutions in the region to share the information and experience in the traditional water systems.

Outputs, Key acti	Outputs, Key activities and Procurement		
Outputs, Key acti Outputs	1.1. Selected karez systems rehabilitated 1.2. Rehabilitation and conservation plan developed for further rehabilitation and long-term conservation 1.3. Short-term employment created 2.1. Selected community members trained to operate and maintain the system 2.2. Awareness raised on the proper use of the system 2.3. Technical capacity of experts, technicians, enhanced 2.4. Operating policies and procedures for managing the rehabilitated sections put in place 3.1. A network with regional and international experts established in order to ensure continuous exchange of information and expertise on Kahrez systems for the long term		
1 11 11	conservation		
Activities	 1.1.1 Excavate and renovate up to ten kahrez systems in the Northern governorates 1.1.2 Procure water surveying equipment necessary 1.1.3 Undertake an impact assessment to determine the impact of the renovation on the lives of beneficiaries, including pre- and post-renovation water surveys 1.2.1 Reviewing the existing regulations and customs of management of the karez systems to develop better conservation scheme 1.2.2 Conducting a scientific survey of existing karez systems to develop further rehabilitation and protection plan 1.3.1 Employing unskilled workers from the community for the short-term rehabilitation work and setting up the general regulation of local employment 2.1.1 Train local beneficiaries of the renovated Kahrez on the use and maintenance 2.2.1 Train MoAWR to transfer the state-of-art expertise and information to conserve the traditional water systems 2.3.1 Organize training workshops for MoAWR staff on theoretical and practical techniques for Kahrez renovation and conservation 2.3.2 Train MoAWR on the use of surveying equipment 2.4.1. Developing standard operation procedures and disseminating them to stakeholders 3.1.1 Participation in the international conferences and study visits on the traditional water 		

	systems to obtain the new information and expertise, to present the situation and to call attentions and supports from the international communities		
Procurement (major items)	 Water sampling and surveying equipments for the field survey IT equipments for the development of the inventory of kahrez 		

Funds Committed	US\$ 1,486,448	% of approved	92.87%
Funds Disbursed	US\$ 1,168,135	% of approved	72.98%
Forecast final date	31 Dec 2010	Delay (months)	30 months

Direct Beneficiaries	Number of Beneficiaries	% of planned (current status)
Men	500 unskilled labour	40%
	15 skilled labour	100%
Women		
Children		
IDPs	N/A	
Others	900-1000 farms	35%
	300,000 rural population	35%
Indirect beneficiaries	1,000,000	40%
Employment generation (men/women)	50/10	40%

Quantitative achievements against objectives and results				
(1) to rehabilitate and conserve Kahrez water systems	 10 karez completed 7 karez ongoing 3 under preparation Restoration agreements signed with the Water User Committees of 4 karez 	% of planned	80	
(2) to build technical capacity in the long-term rehabilitation and maintenance of traditional Kahrez systems	 4 Water User Committees that have started work have received training on Finance, Reporting, and Procurement. Manual for Sustainable Karez Restoration in Iraq has been completed Project liaised with NGO (Voice of Older People) to teach hygiene and safe water use in Garazel village. Filters were also distributed. 	% of planned	100	
(3) Networking with concerned institutions in the region to share the information and experience in the traditional water systems.	 Iraqi MoAWR joined the membership of ICQHS for further cooperation along with Iran, Oman, Afghanistan and China. Survey and project steering committee for Phase 2 project (2010-2012) enabled exchange of international expertise 		100	

Qualitative achievements against objectives and results

- 1. Request for extending end-date of karez project to 31 December 2010 approved on 20 September 2010.
- 2. Contractors have continued to carry out karez restoration plans within the Erbil and Suleimanyah Governorates.
- Restoration of ten (10) karez completed, 7 ongoing and 3 under preparation.
- Project will achieve restoration of 20 karez by the end of November 2010.

Main implementation constraints & challenges (2-3 sentences)

Contaminated water prior to karez reconstruction was identified in Garazel Village however precautionary efforts by the project and a local NGO will mitigate any risk.