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

Date and Quarter Updated: December 2010 (4th 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				
Geo. Location	Northern governorates (Erbil, Dohuk, Sulaymaniyah)				
Project Cost	US \$ 1,600,628				
Duration	21 months (extended 17 months)				
Approval Date	10.04.2007	Starting Date	10 Apr 2008	Completion Date	10.07.2007 extended
		_	_	_	to 31 Mar 2011
Project	The project is aimed at increasing the water supply in rural areas through the rehabilitation and				
Description	conservation of the traditional Kahrez water management system.				

Development Goal and Immediate Objectives

Outpute Koy activities and Procurement

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.

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 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 bette 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
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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 Kahren
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
• Water sampling and surveying equipments for the field survey
IT equipments for the development of the inventory of kahrez

Funds Committed	US\$ 1,561,963	% of approved	97.58%
Funds Disbursed	US\$ 1,305,114	% of approved	81.54%
Forecast final date	31 Mar 2011	Delay (months)	15 months

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

Quantitative achievements against	% of planned	
(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 	90
(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. 	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 March 2011 approved on 16 December 2010, on the basis of finishing the remaining 2 karez which are ongoing and to undertake the external evaluation of the project.
- 2. Contractors have continued to carry out karez restoration plans within the Erbil and Sulaymania Governorates.
- Restoration of 18 karez completed, 2 ongoing (1 in Erbil, 1 in Sulaymania)
- Project will achieve restoration of 20 karez by the end of January 2011.

Main implementation constraints & challenges (2-3 sentences)

One of the remaining karez sites was partially destroyed by a flash flood on 16 December 2010. The extended time will allow for the project to recover this loss. Also, contaminated water prior to karez reconstruction was identified in Garazel village however precautionary efforts by the project and a local NGO will curtail chances of possible disease outbreak.