



Delivery of Potable Water to People in Tarmiya

Concept Paper

Islamic Relief Worldwide

Project Concept Paper

Project Title	Delivery of potable water to people in Tarmiya
Goal	Locals have full access to clean water and enjoying better health levels.
Location	Tarmiya district – North of Baghdad
Implementing Agency	Islamic Relief - Iraq
Duration	six months
Requested budget	280,000 USD
Beneficiaries	1,000 individuals

Problem Statement:

- ❖ The deterioration occurring in the infrastructure of Iraq during the last 20 years, especially in Water and Sanitation sectors (which are most important sectors) has created a major health problem. The unavailability of spare parts and cash for repairs and setting up new network systems, as well frequent electrical cuts reaching up to 10 hours a day, have led to further deterioration in this vital sector. The predicament is aggregated due to the exodus of qualified technical staff due to bad security situations and continuous displacing, lack of incentives, and replacements are unqualified to run this kind of facilities. This led to further problems and damages to the working life of the equipment used. Also there is an urgent need for training of operating staff in this sector.
- ❖ Tarmiya; a rural city located to the north of Baghdad and occupied by about 170,000 individuals; it is one of the areas that witnessed fleeing of large waves of displaced families towards the city as a result of sectarian violence in Iraq during 2006 and 2007 (according to available statistics, there are more than 6,000 displaced families settled in Tarmiya). Generally, the city lacks for proper infrastructures and basic services. Women and children in Tarmiya could be considered as the most affected sector that has complained severely due to inaccessibility to appropriate health and medical services. According to the local health authority in Tarmiya, the mortality rate among pregnant women and new born babies indicated one of the highest rates all over Iraq.
- ❖ One of the main complains of locals in Tarmiya is the severe shortage in potable water due to ineffective water treatment stations, while many other areas already lack for water plant. Currently, there are about 21 villages in Tarmiya (e.g. Khan Al-Kadeem, Al-Baghdadi) are neglected and lack for clean water; people get their needs of water from irrigation canals and rivers.
- ❖ Due to absence of governmental support aggravated by the heavy damages to which Tarmiya has subjected as consequence of recurrent military operations there, the majority of present water treatment stations are currently ineffective and indicated for rehabilitation. On the other hand, many of rehabilitated plants

left without completion; they lack for proper pipe networks that deliver the portable water to

- ❖ In addition to the chronic degradation of the water treatment plants (WTPs) in majority of Tarmiya villages, further pressures have been put on them and on the water networks because of the increasing numbers of IDPs in the area.
- ❖ Records of Tarmiya local health office have referred that many infections and contamination signs have been registered among local families in Tarmiya especially among children. It refers that due to lack for clean portable water, water born diseases particularly cholera and diarrhea disseminated at serious rates among people there that led once to death of 18 children and elderly individuals (according to Tarmiya General Hospital official).

Islamic Relief – Iraq:

- ❖ Since its active presence in Iraq in 2003, IR-Iraq has planned and implemented tens of development and emergency relief projects. The main sectors that it targets are: Education and Vocational Training, Health and Nutrition, Water and Sanitation, Income Generation, Emergency Relief, Disaster response and preparedness, and Orphans Support. Islamic Relief also implements large-scale food distributions during the Muslim festivals of Ramadan and Qurbani, even in countries where we do not ordinarily work.
- ❖ Water sector was and still one of main IR-Iraq interests as it is directly related to people lives and safety. Many projects in this regard had been designed and implemented by IR-Iraq in participation with many institutional donors in Baghdad, Karbala, and Anbar. Several water treatments plants and sewage stations rehabilitated, pipe networks installed, tens of wells dig in addition to hygienic and awareness campaigns.
- ❖ During 2008/2009 and in participation with SDC, IR-Iraq achieved rehabilitation of two treatment plants in Tarmiya (serving about 2,680 individuals). The project included renewing of two plants in two villages (Dawood Al-Hasan and Al-Thaer) in addition to building capacities of operating staff and holding hygienic awareness activities.

Project Summary:

Through this project IR Iraq propose to drag river water from Tigris River to the existent water station at Khan Al Kadeem village in order to be treated for safe distribution to the inhabitants of the village and around it.

IR will provide means to pump and distribute raw and clean water and will deliver technical capacity building for water station staff.

Goal: Support Iraqi deprived people to enjoy healthy environment at their schools

Outcomes:

1000 persons of Khan Al-Kadeem Village have adequate quantity of safe water and have enough awareness regarding hygienic and health matters related to water borne diseases.

Objectives:

- ❖ Providing potable clean water to residents of Khan Al-Kadeem village estimated 980-1,000 individuals (locals and IDPs) according to SPHERE standards.
- ❖ Ensuring accessibility of residents in remote areas to potable water via setting up and installing of pipes network and water pumps.
- ❖ Promoting local people health via decreasing and controlling dissemination of water born diseases like cholera, diarrhea in Khan Al-Kadeem village.
- ❖ Raising awareness of people for proper and controlled use of water and motivate their hygienic awareness regarding water born diseases.
- ❖ The project will also build and enhance the capacity of the operators at the water plant station to ensure better sustainability.

Outputs:

- ❖ 12000m of 6 inches water piping is installed and feeding the Khan Al-Kadeem village WTP with raw river water.
- ❖ New pumping system installed and pushing adequate quantities of water from the river to the WTP.
- ❖ WTP staff's capacity is improve.
- ❖ Awareness regarding health and hygiene waters among women of the village is enhanced.

Project Activities:

- ❖ IR Iraq will recruit high experienced program and field staffs to manage projects activities. A priority will be given for the local staff in Tarmiya.
- ❖ Close coordination will be kept with local water authority to implement and monitor the activities. Final approvals will be obtained from concerned authority.
- ❖ Setting up and installing of pipe network (6 inch diameter) from the river source to treatment plant in Khan Al-Kadeem village with total length of 12 Km.
- ❖ Providing and installing of water pumps to ensure pushing of desired quantities of water to the station.
- ❖ In cooperation with local water authority, a special training will be held for the operating staff of the water plant. Attendants will be provided with new technical skills to enhance their performance and promote their hygienic awareness.

- ❖ In coordination with the local health office in Tarmiyah, two workshops will be carried out in the village for women households to raise their awareness toward hygienic and healthy practice and to encourage them for more adoption of good hygienic behavior.
- ❖ Daily monitoring with regular reporting will be adopted to assess and follow up work progress as scheduled. AT the end of the project, final narrative and financial report will be prepared and sent to the donor for evaluation.

Estimated Budget:

The total estimated budget required for this project is **280,000 USD**



Most of people used to get their needs of water directly from irrigation canals & rivers directly



The majority of water treatment plants in Tarmiya is old and lack for proper maintenance

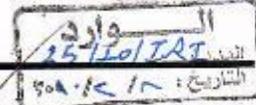
بسم الله الرحمن الرحيم
جمهورية العراق

Ministry Of
Municipalities
and Public
Works (MMPW)
General Directorate For
Water
AL-TARMIYA



وزارة البلديات والأشغال
المديرية العامة للماء
مديرية ماء محافظة بغداد
دائرة ماء قضاء الطارمية

التاريخ: ٢٠١٠/٤/٧



إلى / منظمة الإغاثة الإسلامية عبر العالم - العراق
م/ تاهيل محطات تصفية وشبكات

نحن دائرة ماء قضاء الطارمية التي تقع ضمن محاذة نهر دجلة والمجمعات تقع ضمن نهر الاسحاقي الغربي وهناك مشاكل في تغذية المجمعات في فصل الصيف والتي لا يمكن على الإنسان الاستغناء عن الماء وهناك محطات تحتاج إلى تاهيل ومد شبكات وحفر آبار وبعض القرى تحتاج إلى بناء محطات جديدة طياً بعض المرفقات التي تحتاج إلى تاهيل ومد شبكات لتتفضل بالاطلاع مع التقدير...

- ١- مجمع الخان القديم يحتاج إلى تاهيل مع خط ماء خام من نهر دجلة إلى المجمع في القرية بطول ١٢٠٠٠ م. قطر الأنبوب ٦ أنج مع مضخة سحب ودفق الماء في الأنبوب لغرض تغذية المجمع بالماء الخام.
- ٢- تغذية قرية داوود الحسن من الأنبوب الناقل لقضاء الطارمية بطول ٧٠٠٠ م. قطر أنبوب بلاستيك قطر ٦ أنج مع ربطه بالقرية محاذة الشوارع العام.
- ٣- حفر آبار ارتوازية لتغذية الكثير من المجمعات والقرى ومنها:
 - مجمع المشاهدة ١ مليون
 - مجمع أم الزهور
 - مجمع تل طاسه
- ٤- تغذية قرية الخضراء من الأنبوب الناقل لقضاء الطارمية بطول ٢٥٠٠ م. قطر أنبوب بلاستيك قطر ٤ أنج.
- ٥- تغذية قرية الخزنة من مجمع ابراهيم الحمادي بطول ٢٠٠٠ م. قطر.
- ٦- تاهيل تصفية الزور بناء سياج مع تاهيل البناية الخاصة بالمجمع من لبخ ونثر وتبديل شتاير السطح والكاشي والخاص بالبناية مع صب المماشي.



عباس ياسين عبدالله
مدير ماء قضاء الطارمية
٢٠١٠/٤/٧

Official request/letter received by IR from Tarmiya water office asking for urgent intervention to rehabilitate water systems in the district