

# REPUBLIC OF LEBANON

## REHABILITATION OF THE DRINKING WATER AND SEWERAGE, EMERGENCY PROGRAMME

### **Location**

Provinces of Nabatiye, Sour, Saida,  
Souther Lebanon

### **Client**

Council for Development and Reconstruction  
(CDR)

### **Financing**

German Financial Cooperation / KfW

### **Period**

2006 - 2011

### **Value of Services**

Phase I: 0.231 million US\$

Phase II: 1.202 million US\$



### **Project Description**

The military conflict between Israel and Lebanon in July / August 2006 caused major damages to Lebanon's infrastructure. The German government, in close co-operation with other governments has committed itself to support Lebanon in the essential rehabilitation works.

The project was designed as an open program to be implemented in two phases.

Phase I was divided in four parts:

- Supplies (pipes, fittings, equipment and tools)
- Rehabilitation works (construction of sewer, main collector, elevate concrete water reservoir, improvement of chlorination stations)
- Supply and Installation (generators, chlorination equipment)
- Other Works (high pressure cleaning of sewers, camera inspection of sewers)

Phase II is also divided in four parts:

- Water supply (replacement of water pipes, rehabilitation and modernisation of pump stations, equip of pump stations with chlorination units)
- Power supply (equip pump stations with public power supply and backup generators)
- Sewerage and drainage (storm water and sewer pipe supply and installation, sewer repair and construction)
- Procurement of maintenance equipment (workshop pick-ups, tools and equipment, PE pipes and welding machine)

### **Scope of Services**

Phase I:

- Identification of appropriate measures for Phase I
- Assessment of costs for Phase I
- Elaboration of contract documents including design, technical specifications and bill of quantities
- Contracting supplies and implementation measures
- Supervision of supplies and works
- Definition of indicators for monitoring and evaluation
- Identification of rehabilitation measures to be implemented during Phase II
- Management of Dispositions Fund

Phase II:

- Elaboration of contract documents including design, technical specifications and bill of quantities
- Contracting supplies and implementation measures
- Supervision of supplies and works
- Definition of indicators for monitoring and evaluation
- Identification of rehabilitation measures to be implemented during Phase II
- Management of Dispositions Fund