

ENGINEERING SERVICES OF THE 1st YEAR OF THE NATIONAL EMERGENCY RECOVERY PROGRAMME (NERP) IN THE WATER SUPPLY AND WASTEWATER SECTORS

Country

LEBANON

Location

North - Western part of the country between Beirut and Syria

Client

Council for Development & Reconstruction (CDR)

Financing

IBRD / EIB

Project Cost

36,400,000 USD

Services of ENB

2,563,000 EUR

Project Duration

04/1994 - 05/2002

Associated Firms

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Tripoli

Project Description

Rehabilitation works of the first year of NERP in the water supply and wastewater sectors of the North - Western regions of Lebanon.

Rehabilitation of water supply works in the water authorities of Qoubaiyat, Tripoli, Naaba El Kadi, Naaba El Ghar, Zgharta, Batroun, Bcharre, Jbeil, Kesrouane and Metn (Area: 2,900 km², total population: 1,600,000 inhabitants).

The water supply sector comprised : 5 new boreholes, rehabilitation of 40 boreholes, 5 spring capture works, rehabilitation of 3 water treatment plants, 40 chlorination stations, 10 new pumping stations, rehabilitation of 50 pumping stations, 38 transmission and distribution systems (100 km of new water supply pipelines with relevant house connections and ancillaries), construction of 10 new reservoirs and rehabilitation of 190 ground and elevated water reservoirs.

Rehabilitation of wastewater works in the city of Tripoli and in the cazas of Akkar, Tripoli, Koura, Zgharta, Batroun, Bcharre, Jbeil, Kesrouane and Metn (Area: 2,830 km², total population: 1,500,000 inhabitants).

The wastewater sector comprised 50 collection systems (construction of 32 km new gravity sewer pipelines with all the relevant manholes, house connections and ancillary works, cleaning by jetting of 44 km sewer pipelines, detection and leveling of around 2,500 manholes) and 2 pumping stations in Jounieh and Tripoli (Al Mina).

Services

- Supervision of construction according to FIDIC
- Review and update of previous designs
- Review of contractor's drawings
- Project coordination and cost control
- Inspection of works during the defects liability period
- Final completion certificate and assistance in the final taking over of works
- Operation and maintenance manuals
- Training