



MUJIB AND SOUTHERN GHORS IRRIGATION PROJECT STAGE II, ZARQA MA'IN PUMPING STATION AND NORTHERN TRANSMISSION LINE SECTION I



Jordan





Employer : MINISTRY OF WATER & IRRIGATION / JORDAN
Contract date : 29.07.2002
Work completion date : 03.06.2005
Project cost : 13 294 755,88 US \$

Southern Ghors Project Stage II, aims to the utilization of the base flow and the flood flows of Wadi Mujib, Zarqa, Zara and Abu-Khusheiba. The collected water will be used to meet the following water requirements:

Southern Ghors agricultural development approximately in 9 500 area
 Southern Ghors industrial utilization
 Jordan Valley touristical development domestic water supply.

Within this project;

Sweimeh-Zarqa Ma'in Transmission Line Extension, DCI Ø1 200 mm, 10 km,
 20 000 m³ concrete terminal raw water reservoir,
 Zarqa Ma'in lifting works, 3 pumping stations, approximate capacities 0,95 m³/s, 0,09 m³/s and 0,05 m³/s, including weir diversion sand trap and water collecting pond.

1. Zarqa Ma'in Lift Works and Items

- Diversion weir on river,
- Transmission line construction at Wadi Zarqa Ma'in bed,
- Settling pond of this line,
- One balancing tank,
- One pumping station,
- 1 200 mm water intersection for pumping to the northern transmission line,

2. Zara Collection and Pumping Station

- Collecting structure on river,
- One balancing tank serving as settling pond,
- One pumping station,
- Lift supply pipe from Zara pumping station to Zarqa Ma'in,

3. Wadi Abu Khusheiba Diversion Structures

- Diversion weir on river,
- One settling pond,
- Supply pipe from Abu Khusheiba to Zara pumping station,

4. Northern Transmission Line Section 1

The transmission line starts from 28 km north (St.0 + 0.00) of Mujib Pumping Station and continues 12 km to the north.

It consists approximately 12 km long 1 200 mm DCI pipe and conveys water to the concrete raw water reservoir inside the desalination installation at Sweimeh.

5. Sweimeh Earth Reservoir

Sweimeh reservoir is rectangular, semi-embedded, two sectioned reservoir.
 Water will be taken from this reservoir and transferred to the desalination installation.
 Useful storage capacity is approximately 20 000 m³.

