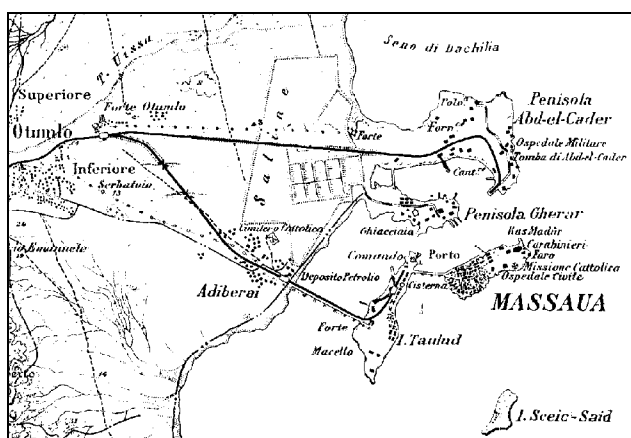


ERITREA

WATER SUPPLY AND SANITATION MASSAWA

Location	Red Sea Coast
Client	Municipality of Massawa
Financing	German Financial Cooperation / KfW
Period	1998 - 2001, 2003 - 2009
Value of Services	1.587 million US\$



Project Description

Increase of reliable supply of potable water and improvement of the sanitation system of the port town of Massawa (pop. 62,000 in 2015).

The original project concept defined in the Feasibility Study (October 1996) was amended to reflect the changes in the water sector policy (2002) requiring supplementary feasibility investigations and amendments on design. The below listed project amendments reflect the actual status:

- Extension/new construction of raw water abstraction facilities (infiltration galleries) and extension/ replacement of 18 km DN 400 gravity transmission pipeline (7,000 m³/day)
- Immediate measures: Rehabilitation and commissioning of earlier constructed distribution system
- Extension of distribution network
- Construction of 120 septic tanks with a capacity to serve up to 6,500 persons in total
- Supply of two sludge tankers
- Construction of a sludge disposal site
- Construction of workshop facilities and supply of tools and equipment for operation and maintenance of water and sanitation facilities

Scope of Services

- Additional geo-physical and hydrogeological surveys
 - vertical electrical soundings
 - refraction seismic investigations
 - exploration drillings
- Supervision of sanitary inventory
- Topographic surveys and soil surveys
- Supplementary feasibility study
- Assistance in force-account works
- Final design and tender documents
- Assistance in tendering
- Supervision of construction