

ERITREA

URBAN WATER SUPPLY AND SANITATION PROGRAMME MENDEFERA AND ASSAB

Location

Towns of Mendefera and Assab

Client

Ministry of Land, Water and
Environment, Water Resources
Department (WRD), Asmara

Financing

German Financial Cooperation / KfW

Period

2004 – 2006

Value of Services

0.391 million US\$



Project Description

Mendefera with a present population of about 35,000 is the capital of the Southern Region located amidst intensely used agricultural lands and facing a high population growth rate. The overall water consumption is about 600 m³ per day or an estimated 20 l/c/d. The present sanitation system is by septic tanks without a central sewerage system.

The proposed project comprises:

- Rehabilitation of the existing water production system incl. boreholes, dug wells, transmission pipelines, water treatment facilities (chlorination, slow sand filtration)
- Extension of the water production by a dam of 2 mill m³ storage capacity, pumping station and transmission pipeline
- New reticulation system for the whole town area separated into pressure zones
- Restructuring of the water service

The important port town of **Assab** with its present population of about 20,000 is located at the southernmost tip of Eritrea and is the capital of the Southern Red Sea Region.

The planned project comprises:

- Rehabilitation of the water production system
- Restoration of the potential of the well field by introduction of a suitable well operation plan
- Implementation of a leak detection and rehabilitation programme for the water reticulation system

Scope of Services

Feasibility Study Water Supply and Sanitation Mendefera:

- Socio-economic Analysis
- Watershed management and erosion protection plan
- Reservoir operation and water management plans
- Concept design of dam, water abstraction, treatment, storage and reticulation system
- Concept design of sewage drainage and treatment system for the town centre
- Cost estimates and investment programme
- Financial analysis, tariff proposal and cash flow for water and sewerage services
- Proposal for institutional restructuring and billing system, training of personnel

Investment Programme Water Supply System Assab:

- Well inspection, immediate repairs and rehabilitation programme
- Pilot testing and rehabilitation of water reticulation system
- Design of overall investment programme
- Proposal for institutional restructuring, billing system and training of personnel