

# ERITREA

## RURAL WATER SUPPLY GASH BARKA REGION

### **Location**

Gash Barka Region / Western Lowlands

### **Client**

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

### **Financing**

German Financial Cooperation / KfW

### **Period**

1996 - 2007

### **Value of Services**

2.853 million US\$



### **Project Description**

The rural water supply programme integrates the provision of physical infrastructure (water wells, hand pumps, solar powered water supply systems and water distribution networks with reservoirs and public fountains) with community participation, health awareness and institutional strengthening.

In 2003, the original hand pump based supply programme has been adjusted to the implementation of a first batch of 25 villages, which benefits a population of approximately 35,000 and comprises the following measures:

- Construction of 28 new boreholes and rehabilitation of 2 existing boreholes
- Construction of 4, and rehabilitation of 3, large diameter dug wells
- Supply of 40 INKAR hand pumps, of which 20 are installed on new or rehabilitated boreholes or dug wells, 10 are replacing broken existing hand pumps, and 10 remain for future replacements
- Supply and installation of 10 solar powered pump systems on new boreholes and construction of 10 small piped water supply systems including reservoirs and public fountains

The programme has been extended in 2005 by the construction of 7 additional solar powered small water supply systems and water points, at such boreholes already completed under above programme measures. The extension measures provide an additional 11,000 people with safe drinking water.

### **Scope of Services**

Feasibility study (1996 – 1997):

- Assessment of the water sector (water resources, current installations for rural water supply as well as the socio-economic and health situation)
- Proposals for a Participatory Water Supply Programme including an overall operation and maintenance strategy aiming at a privatisation of O&M services

Consulting services for programme implementation divided into 2 contracts (1998, 2001 – 2007):

Preparatory Works and Construction Supervision:

- Demographic survey
- Hydrogeological surveys and borehole siting
- Design of drilled water wells, hand-dug wells and small solar powered water supply systems
- Preparation of tender documents for the construction of water wells, the supply and installation of pumps, and the construction of water distribution networks
- Assistance in tendering and contracting
- Supervision of drilling and construction works

Accompanying Measures:

- Community Participation and Health Education (CPHE) campaign
- Attendance during pump installation and Village Level Operation and Maintenance (VLOM) training
- Monitoring