

EGYPT

MAINTENANCE OF DRAINAGE PROJECTS

NORTH QENA DIRECTORATE

Location

North Qena, Upper Egypt

Client

Egyptian Public Authority for Drainage Projects (EPADP), Giza

Financing

German Financial Cooperation / KfW

Period

1999 – 2004

Value of Services

0.654 million US\$



Project Description

The Ministry of Water Resources and Irrigation in Cairo is in the process of replacing the existing Naga Hammadi Barrage by a new barrage a few kilometers downstream of the old structure to ensure an uninterrupted supply of irrigation water. The new barrage is designed to supply water to an increased irrigation area on both banks of the Nile River. To achieve this, water will be stored at the new barrage at higher reservoir levels to provide most favourable hydraulic conditions for discharge into the canal system.

To prevent negative impacts on agricultural yields and farm incomes due to water logging in the irrigated area upstream of the Naga Hammadi Barrage, the EPADP has embarked on a program the major part of which is the improvement of pumping facilities and of discharge efficiency of 307 km of open drains by regular maintenance activities. The covered field drains empty into a system of tertiary, secondary and primary open drains. The open drainage system is subject to erosion of sides, siltation, and excessive aquatic weed growth, factors which, if left unattended will seriously affect the discharge capacity of the open drains and consequently also the pumping performance at the drain out-falls.

Scope of Services

- Inventory of the drain network (cross-section survey)
- Inventory of damage and other data collection required to compute annual maintenance quantities and cost
- Adaptation of a Routine Maintenance System developed by GITEC in Thailand and Syria to the specific conditions of Upper Egypt
- Specifications of work, equipment requirements, annual budget estimates, and supervision and monitoring standards and procedures
- Training of, and assistance to, the staff of EPADP's North Qena Directorate in maintenance management and monitoring