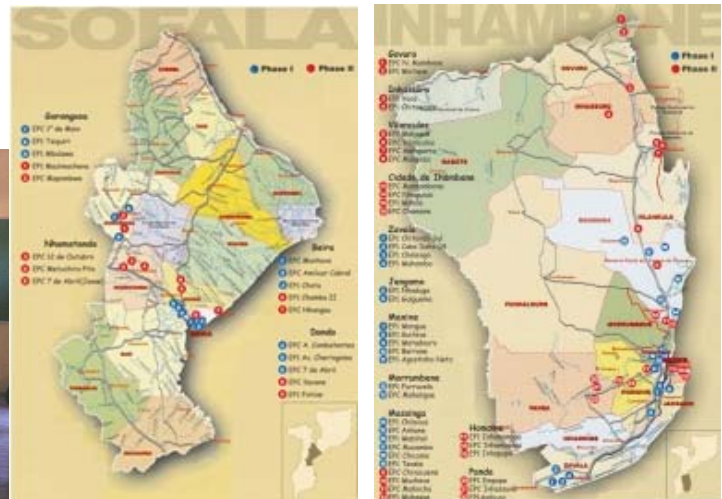




## MOZAMBIQUE

### CONSTRUCTION OF PRIMARY SCHOOLS IN INHAMBANE, SOFALA AND MANICA PROVINCES PHASE 2



<b>Client</b>	Ministry of Education of Mozambique (MINED)
<b>Financing</b>	Kreditanstalt für Wiederaufbau (KfW)
<b>Duration of Services</b>	12/2007 – 06/2014
<b>Cost of Implementation</b>	10,08 Mio EUR
<b>Value of Services</b>	2,592,074 EUR

#### Scope of Services

The Consultant will assist the MINED in:

- Assistance in site selection
- Topographical survey of plots
- Detailed design with special consideration of appropriate low cost and low maintenance construction
- Pre-qualification of Contractors
- Tender Process
- Contract award and administration
- Site Supervision and payment control
- Handover and final acceptance of works
- Rectification of defects and deficits during guarantee periods
- Final Project accounts
- Management of KfW disposition fund

## Brief Project Description

The Project's overriding goal is to improve the quality and the access to primary school education in three Provinces, Inhambane, Sofala and Manica, giving special attention to the increase of girls attending school. The MEC plans in this 2<sup>nd</sup> phase of the program the new construction of approximately 180 classrooms, 72 teacher houses, 31 offices, 248 latrines and 22 boreholes. The Project co-financed by the German government, is implemented in accordance with the Mozambique's Education Sector Strategy Plan (PEEC).

CES developed standard designs on the basis of existing prototypes for primary school buildings already approved and implemented by the Ministry of Education.

The prototypes were adapted to cover the individual requirements at each of the 35 school sites.

- In view to the varying site locations, defined and selected by the Provincial Directorates of Education, with different environments and conditions, several alternative structures have been studied in order to reach the optimum design solution for the project.

The design considers furthermore that some sites are located in zones with difficult access, poor availability of materials and lack of qualified labour. Therefore, the principle aim was to find simple construction methods and most economic solutions by maximizing the use of locally available resources, but at the same time to guarantee the best functionality of the buildings. Main requirements for the development of planning solutions were:

- Realization of solid, long living structures with minimized cost for construction and maintenance, permitting at the same time a satisfying architectonic appearance
- Application of materials and construction solutions allowing repairs and maintenance with locally available means.
- Single storey structures in order to reduce construction costs;
- Improvement of natural ventilation, sun and rain protection, considering the climatic conditions at the proposed sites.
- Improvement of user-friendly function of structures and assembly of buildings, simple access for handicapped.
- Maximum use of natural illumination in e rooms.
- Maximum use of locally available material as far as economically justified
- Simplified and functional details with modular and linear structures and application of modular windows and doors.

Phase 1 and 2 of the program includes the new construction of:

- 374 classrooms
- 142 teacher houses
- 280 latrines
- 51 office buildings
- 53 boreholes with pumps
- Supply of basic furniture for classrooms, offices and teacher houses

For the school program a specific maintenance system will be established. Special attention is given to local construction material and applied technologies in school construction.

