



Case History: Majahida Bible College Water Supply, Tanzania. 2014-2016

Beneficiaries

300 staff and students at college plus the surrounding area.

Partners

Africa Inland Church, Tanzania.

Implementation

Local well drillers were contracted to carry out the work and Davis and Shirtliff installed the pump. CED made visits to inspect the work and to advise. College staff made final connections to tank and received training in managing the system.



Pump and generator arrive on site

Project Summary

Majahida Bible College is a ministry of AIC(T) but is largely responsible for finding its own income through student fees and gifts. When Ian Rankin visited in 2012 a shallow well with solar powered pump had already worn out and the large tank on the campus was empty.

In 2014 the college engaged a surveyor and drilled to 100m without success. The Shinyanga municipal engineer was then invited to carry out a more sophisticated survey on the basis of which CED agreed a different drilling site and a 105m bore was successful in 2016.

CED's Mike Yallop visited in 2016 and was able to supervise the installation of a pump and generator. He specified a Grundfos SQF 2.5-2 pump that can cope with a wide voltage range. The previous system's solar panels can be used to pump water at a slow rate to augment the main work done by the diesel generator.

A water sample was tested in Shinyanga and found to be potable. A charge is being made for the water to fund future repairs.



Students and staff, 2014

Funding

The project was funded by churches and individuals through CED with CED making up the shortfall.

Expenditure

Initial 100m deep bore through rock, inc. survey	£3,900
Second survey	£ 750
105m borehole, inc casings, developmt & test	£6,100
Pump, generator, installation	£6,500
Local management, tools and training	£ 850
CED admin and travel cost	£6,000
Total expenditure	£24,100



Existing water tank



Water arrives at the tank