

**JUNE 2016**

## **Kiwere Water Project in Tanzania**

EI has been working with its partner church, the Anglican Diocese of Ruaha, on a water and sanitation project for the village of Kiwere since May 2015. The project aims to address the dire need for accessible water for the approximately 2000 residents of the village. Many of them have no option but to walk for two and a half hours to fetch water from the river during the dry season.

The project is mobilising the resources and collective strength of the community to construct a gravity flow system, delivering water from an intake on a higher point of the river, via nine kilometres of pipeline to storage tanks and water distribution points. The project is also providing a water supply to the primary school, along with a new student latrine block with hand wash stations.



**Pipeline construction**



**The intake structure on the bank of the Little Ruaha river**

The community worked really hard to dig a one metre deep trench for the nine kilometres of pipeline and water is now reaching the three 23,000 litre storage tanks in the village. The pipes for the water points have been laid and now work is commencing to construct the water distribution points which will enable all the residents to access water close to their homes.

## Water ‘software’

We like to think of water projects having a ‘hardware’ component as well as a ‘software’ component and both are equally important. The ‘hardware’ is the things that are built – pipes, tanks, and taps but the software is what happens within the community and within people’s minds to make the project work in a sustainable way.

So, alongside the technical construction work we have been working with the community to form and train up a Water Users’ Association, headed up by a committee. When we finish construction, the Association will have ownership of all the hardware and will have systems in place to charge the users a nominal tariff to cover the ongoing maintenance costs of the system.



**Project officer Benny Sanga explains about latrine slabs**



**Participatory training in Kiwere Church on routes of bacteria**



**Benny facilitates a village meeting to discuss the new water committee**



**Training for the new water committee**



**Construction of new student latrine block for Kiwere primary school**



**Technician Eric Msungu plastering a tank**



**Plumbing in the water tanks**

## **Water treatment**

Because the source of the water is a river, point-of-use water treatment is essential in order for people to avoid water borne diseases and improve their health. We are training members of the local church as well as the water committee to train the whole community on how they can make their water safe to drink.

The traditional method is boiling but this has several disadvantages including the consumption of firewood and smoke. We teach people a simple method called SODIS (Solar Disinfection) for which all you need is a metal roof and a plastic bottle. By putting water in a bottle on a hot surface in the sun, the combination of a slight temperature rise and the UV rays from the sun kills 99% of germs for a six hour exposure. This is one of the simple methods we teach people to improve their health at home.



**SODIS - water bottles on the roof**

*By Andrew Wingfield, El Tanzania  
Country Representative*

**Dates for your diary**

**Board Meeting: 30 September**

## John and Gillian Turner



John and Gillian were married on Saturday 25 June. John is a longstanding supporter of EI. He went on a summer team to Brazil in 2007 and spent 6 weeks in Iringa, Tanzania in 2008.

## Gift for the Safe Houses



EI in South Africa received an anonymous donation of 14 quality mattresses and duvet sets for the Safe Houses. A massive and unexpected blessing!



We are meeting at Trinity Church Harrow. It is easy to get to, with plenty of parking available nearby (more details on how to get there on our website).

We will have an opportunity to hear from **Andy and Angela Sharpe** and **John Naudé**. Andy and Angela returned from Tanzania at the end of 2015, where Andy worked with the Water Projects and Angela taught English and helped with Office Finance and Admin. John and his son, Samuel, returned in March 2016 from their time in Malawi, where he taught pastors at the Bible College of the Evangelical Baptist Church of Malawi. We also plan to Skype some of the other families who are overseas, to hear first-hand news from them.

**Pam and Richard McGowan**, from EI Canada, will be in the UK and will join us. They would love to see you! Their daughter, **Kristy Nowell** who also works with EIC, and her family will be accompanying them.

Please bring a light lunch to enjoy in the middle of the day. At 5pm we'll have a BBQ. Food will be provided for the BBQ.

**Please let us know at the office if you are coming so that we can let the catering team know how many people to expect.**

