

Golder donates water treatment plant to community

On **Wednesday, 26 November 2014**, Golder Associates held a gathering to celebrate the donation of a small water treatment plant for delivery to the Golder Trust for Orphans' (GTO) KwaSizabantu Schulzendal Project in Malelane. The plant was viewed at their offices in Midrand before it was transported to the site for assembly and commissioning.

The KwaSizabantu Schulzendal school complex in the Malelane area receives their water supply from the adjacent Driekoppies Dam, which is primarily used as an irrigation water source. During times of peak water demand, the single borehole capacity is often exceeded. The water quality of the referred dam is not acceptable as potable water. The community which is served by the borehole is over 200 people.

Currently, the school and surrounding areas only receive water every second to third day, as the municipality distributes water on a rotation basis to communities in the area. **Hanrik Zietsman**, General Maintenance Manager at the school, said that many people in the community come to the school to replenish their water supply in containers, but they are rationed at present.

This plant that is herewith donated to the community will have a capacity to provide about 3000 litres of water p/h during an 18 hour day. Based on an average use of 50 litres of water per person, this plant can supply a community of over 1000 people per day.

Golder's Construction Services team, together with **Dr André van Niekerk**, engineered a small water treatment plant solution, constructed in Golder's Centurion workshop from start to finish. All

the mechanical, electrical, chemical and civil aspects have been addressed in-house. This includes the process, manufacturing of supporting frames, the design and selection of the mechanical equipment, the electrical control panel and the plant layout.

This is a downscaled version of some of the plants that Golder is capable of producing. The Construction Business Unit specialises in total water treatment plant solutions and they are capable of producing solutions for groundwater, surface water, sewage water, acid water, potable water, etc. They provide mobile, completely installed and containerised options for these solutions. A leaflet of these services is attached.

The KwaSizabantu Schulzendal Project



The KwaSizabantu

Schulzendal Project is a Christian mission that provides community support and quality pre-school education to HIV/AIDS orphans in Schulzendal, a settlement within the Nkomazi Municipality, South Africa. The mission has an operational facility which includes fencing around the property, housing units for staff, storage for equipment, a water tower, sleeping facilities for guests and volunteers and electrical connection. There is agricultural production (tomatoes under shade cloth), a samp mill as well as a bakery on the premises which generate income used to run the mission.

Enquiries: