



water & sanitation

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Water and Sanitation
REPUBLIC OF SOUTH AFRICA

INTERNET ARTICLE

Mpumalanga community receives a water treatment plant

17 December 2014



Golder Construction Team one week before the delivery of the plant

On 26 November 2014, consulting, design and construction services company Golder Associates held a gathering to celebrate the donation of a small water treatment plant for delivery to the Golder Trust for Orphans' KwaSizabantu Schulzental Project in Mpumalanga, just a few kilometres outside of the town of Malelane.

The plant was viewed at their offices in Midrand before it was transported to the site for assembly and commissioning.

The KwaSizabantu Schulzental 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 to dam is not acceptable as potable water. The community which is served by the borehole is over 200 people.

Before the donation of the plant, the school and surrounding areas only received water every second to third day, as the municipality distributes water on a rotation basis to communities in the area.



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Henrik 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 per hour 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 1 000 people per day,” says Zietsman.

Golder’s Construction Services team, together with Managing Director (MD) 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 company’s construction business unit said it specialises in total water treatment plant solutions and they are capable of producing solutions for groundwater, surface water, sewage water, acid water, potable water, and similar. They provide mobile, completely installed and containerised options for these solutions.

The KwaSizabantu Schulzental Project is a Christian mission that provides community support and quality pre-school education to HIV/AIDS orphans in Schulzental, a settlement within the Nkomazi Municipality, South Africa.

The mission has an operation 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 and a bakery on the premises which generate income used to run the mission.

Ike Motsapi & Infrastructure News

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