

# This is a completion report of the phase 2 of the Sanitation Project at Sincobile School

## CONSTRUCTION COMPLETION FOR SINCOBILE WATER, SANITATION AND FOOD PROJECT.

The construction requirements of the project has been completed.

### **Kitchen.**

The kitchen has been completed and alternative energy sources can now be used in food preparation.



A bin has been constructed to enable the cooking ladies to utilize the stove that uses coal-dust charcoal as an energy source, along with an area for firewood cooking.

A facility for gas burners utilizing biogas has also been constructed. This energy source can be utilized as soon as the bio-digester starts producing bio-gas. The bio-digester needs to be charged before adequate gas will be produced. On advice from David Oldfield cow dung and organic matter will be added. Food rests and waste will also be added to feed the bio-digester.

The solar geyser that has been provided will provide hot water, thus saving energy in heating pots and heating water in food preparation.

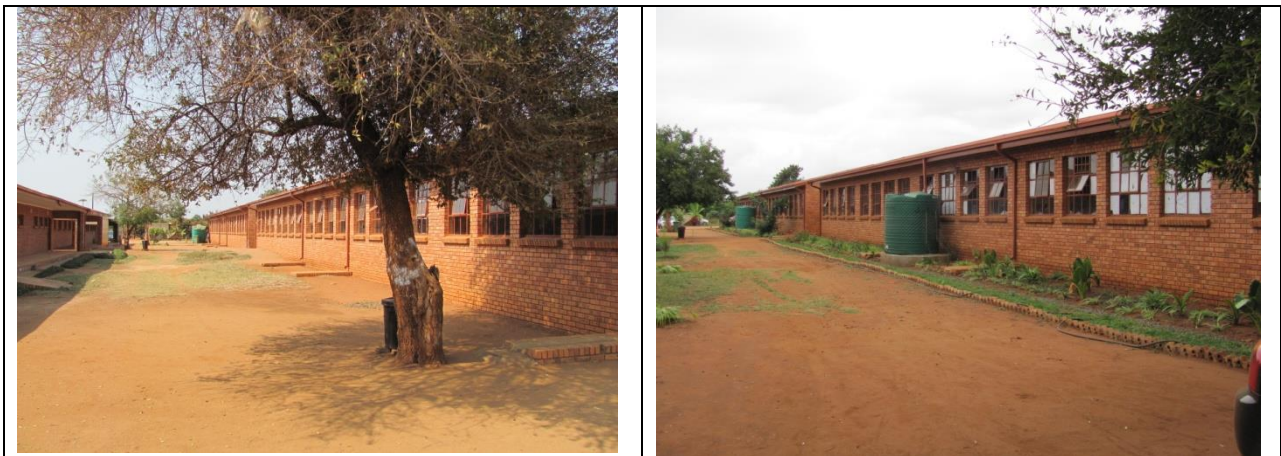
A wash basin large enough for the pots with both cold and hot water supply has been build. The effluent from this wash basin runs out through a water treatment bin before running into the soak trench for the food garden. This ensures that the soil is kept moist preventing erosion and reducing on watering requirements.

Bins were constructed for waste separation and collection for recycling. The organic waste from the Kitchen will be added to the bio-digester for gas production.

The cooking ladies will be provided a short training session on all aspects of the kitchen before it is taken into use.

### **Rain water harvesting.**

The rainwater harvesting system has been constructed and the water collecting tanks were installed.



A garden with trees, flowers and grass of  $\pm 140\text{m}^2$  has been planted and will be fed with water from the rain water harvesting system and water collection tanks.

### School entrance gate.

The school entrance gate with sign writing on the left and painting on the right with water point, water reutilization system and garden is complete.



The water point with waste water utilization into garden is in use during school hours.

Many compliments on the beautifying of the school entrance have been received from the teachers, learners and local community members.



## Sipho's House



The water point at Sipho's house has been upgraded with a built wash basin and water treatment bin as to capture and re-utilize normally wasted water. Effluent water is now being treated and can be used in a food garden.

Gutters were installed and a 2500 liter rainwater collection tank was installed.

## Sipho's neighbors House

The water point at the neighbor's house has been upgraded with a built wash basin and water treatment bin as to capture and re-utilize normally wasted water. Effluent water is now being treated and can be used in a food garden.



Gutters were installed and a 2500 liter rainwater collection tank was installed.

### **Dry toilets.**

The dry toilets have been built and are in storage at the steelwork contractor.

As discussed they will only be taken to and assembled on site after the water re-use gardens at these houses have been established. The dry toilets have urine diversion and collection facilities. The concern is that the urine will accumulate without safe urine disposal methods in place.

As soon as the gardens are in place the urine will be diluted in the waste water treatment system and be fed to the garden in a diluted and safe manner or be added to the schools urine collection tanks when space becomes available.