

The Tank-Pump-Tap Unit (“TPT”) for schools

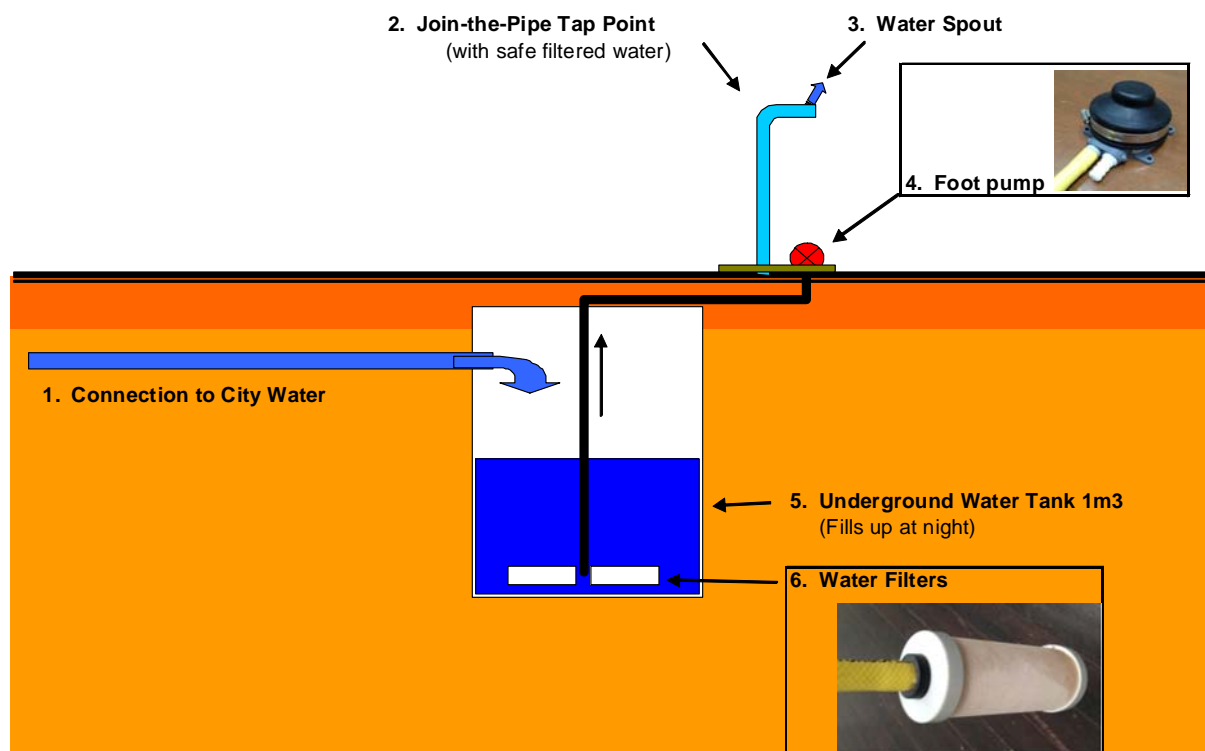


Fig. 1. Schematic design of the Tank Pump Tap Unit (the “TPT” unit).

In many schools in Africa, there is a water connection with the City water. However, there are 2 major problems to be solved:

1. The pressure of the City Water is often not enough, especially during the day. Therefore often there is no water from the tap for drinking or for handwashing.
2. The quality of the water is often below standards for drinking.

The TPT unit solves these 2 problems at the same time.

1. The unit has an underground storage tank that fills up with the City water when there is pressure, this is often at night. This stored water can be used during the day.
2. The water I pumped out of the TPT with a foot pump connected to one or two ceramic filter elements. The filtered water is 100% safe to drink

The additional advantage of using a footpump are:

1. No water losses: there are no leaking taps
2. Only using the amount of water needed
3. No contaminated taps; the tap is not touched by the hands, so

Maintenance:

The Ceramic filters must be cleaned from time to time, cleaning interval depends on the quality of the city water.

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