

## PEP – an Innovation in Small Scale Irrigation

The **Concrete Pedal Pump (PeP)** is a foot-driven irrigation pump, which draws water from a depth of max. 8 metres. The **PeP** is based on the best principles of appropriate technology. Manufactured in villages by local manufacturers, the **PeP** is inexpensive, very durable and locally serviced. The rust free body is made of concrete with inlaid PVC.



The **Concrete Pedal Pump (PeP)** is used by many small scale farmers to increase their harvest and create income. It is easy to fill tanks with water and use gravity for irrigation. The pump is a helping tool to guarantee a good harvest especially during dry season using irrigation.

## Water for the Third World (W<sub>3</sub>W) introduces:

- a pump manufactured in local workshops at village level;
- a pump manufactured from regionally available parts, incl. local supply of spare parts;
- a pump which can be properly maintained by the farmers themselves.



### University of Applied Sciences of Central Switzerland (FHZ) Lucerne, School of Engineering and Architecture (HTA)

Summary of our tests, opinion of the experts:  
Advantages of the Concrete Pedal Pump (PeP) are :

**excellent hydraulic performance,  
appropriate design and low  
manufacturing costs.**

## IRRIGATION POTENTIAL

The use of the pedal pump for double cropping is ideal in areas where the water table on average lies not deeper than 6 meters.

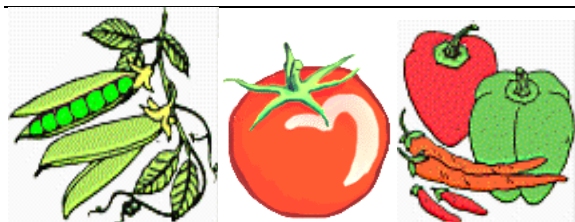


Under above conditions double cropping with good to high yields is achieved using the Concrete Pedal Pump (PeP).

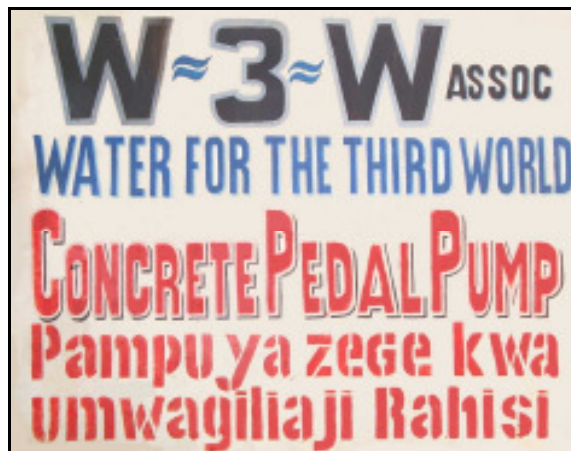
- Vegetables, like tomato, onions, okra, eggplant, lady finger, garden egg, cabbage, carrot, water melon, green pepper, spinach, ... on approx. 1 acre
- Fruit tree nursery on approx. 0.5 acres

**Some special features  
of the PeP – Concrete Pedal  
Pump:**

- Water delivery up to 100 litre per minute  
The output of PeP has proven to be at least twice as much as the output of any other manual pump.
- Water lifting up to 8 meters vertically and more than 400 meters horizontally
- 100% Tanzanian Product, i.e. local manufacturing, service & maintenance
- No fossil fuel or electricity required
- Very easy, soft, and foot driven operation
- Heavy duty concrete
- Very durable
- No rust
- No expensive repair



**Contacts to get information or  
quotations:**



**W≈3≈W**

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Name:

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introduces the

**PeP**

**Concrete Pedal Pump**

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The solution for small scale irrigation  
of vegetable gardens, domestic use  
and cattle watering



**W ≈ 3 ≈ W**

Water for the Third World

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