

ROPE PUMP

INTRODUCTION

The USAID West Africa Water Supply, Sanitation and Hygiene (WA-WASH) Program aims to improve the health and livelihoods of poor households through the provision of multiple use services (MUS) of water, among other interventions. The MUS approach allows households to meet their domestic and productive water needs. The rope pump is a low-cost technology that when installed with other improvements provides a reliable, safe water supply for families and communities.

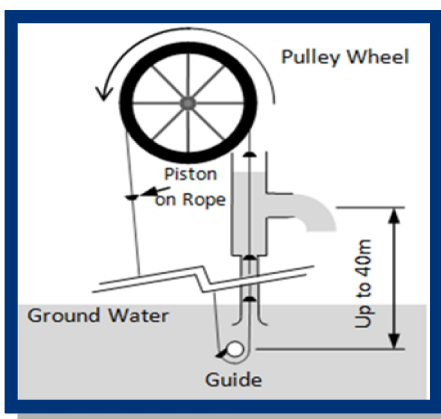


DESCRIPTION

Powered by human energy, the rope pump can be installed at new or existing water access points such as garden wells, improved hand-dug wells, or drilled wells. The rope pump is made up of a wheel, a rope with pistons or rubber stoppers attached at regular intervals, a PVC pipe and a guide placed at the bottom of the well. The wheel is generally run by hand. USAID WA-WASH also developed a rope pump that can be powered by pedaling a bicycle, to provide more water for gardening purposes. When the wheel is turned, the pistons push water through the main pipe towards the faucet.

USE

The rope pump is mostly used by families or communities in rural or peri-urban areas without infrastructure providing access to potable water. It can also be used to provide water for domestic and commercial gardens.



ADVANTAGES

- ◆ Easy to use
- ◆ Protects water against infiltration by contaminants
- ◆ Repairable locally by trained metalworkers

COST

This rope pump costs between \$110 and \$120. It is a multi-family model manufactured in Ouagadougou, Burkina Faso.

IMPLEMENTING PARTNERS

