

Light of Africa's BIO-SAND PROJECT a Success!

Thank you, ORU!!

ORU's International Business department gifted Light of Africa with a Grant of \$3000 for a Bio-Sand Project in the rural areas where LOA ministers. Following are the results of that investment:

- Sekute Basic School Hygiene and Sanitation Training for grades 1-10
- HIV/AIDS training as it relates to contaminated water and water born diseases
- Moonga Community School Hygiene and Sanitation Training for grades 1-7
- Daily devotions teaching Bible principles of Hygiene and Sanitation
- Increased awareness and training for community health workers
- Making clean water available for 2 schools, 17 classrooms, over 400 students, and 18 staff members
- Providing clean water for Sekute Clinic which serves surrounding villagers
- Providing clean water for 16 households of those volunteers making the filters
- Effective in removing bacteria, protozoa, elements, turbidity, taste, smell, color, viruses, iron
- Lifespan for a filter is 30+ years
- No operating cost

What is a Bio-Sand Filter?

The bio-sand filter is an adaptation of the traditional slow sand filter which has been used for community water treatment for hundreds of years. The bio-sand filter is smaller and adapted for intermittent use which makes it suitable for households.

Water treatment is carried out by the sand inside the filter. The filter container can be made of concrete, plastic or any other water-proof, rust-proof and non-toxic material. The concrete bio-sand filter typically uses a box about 0.9 m tall by 0.3 m square, or about 0.3 m in diameter.

The filter box is cast from

a steel mold or made with pre-fabricated pipe. The container is filled with layers of sieved and washed sand and gravel (also referred to as filter media).

There is a standing water height of 5 cm above the sand layer. Similar to slow sand filters, a biological layer of microorganisms (also known as the bio-layer or schmutzedecke) develops at the sand surface which contributes to the water treatment.

A perforated diffuser plate or basin is used to protect the bio-layer from disturbance when water is poured into the filter.

How YOU CAN Become a Partner

Water is a hard to find commodity and clean water is beyond the grasp of common Zambians living in the compounds and rural areas. We drive past a water hole every time we go to the village. It exists due to a poorly maintenance pipe which leads to the compound of Nakatindi and Dambwa North. Truly it is a hole near the edge of the tarmac road.



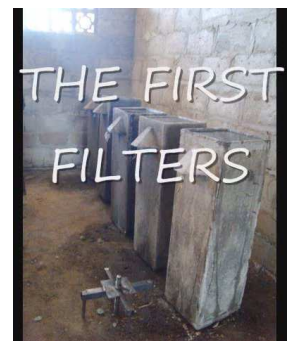
Dirty water is bucketed daily by those living nearby to take home and is also used by women washing clothes at the water hole. Imagine taking your clothes to a dirty hole filled with water and washing your family's clothes. Then you get thirsty so you just drink from your cupped hand that has, with great despair, dipped into this pond of contamination.

Pathogens are common in our drinking water. "It is what it is." Or is it? Can

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Bio-sand filter in concrete casing



we bridge the gap? Can we bring clean water for improved life? YES

WE CAN! Together we can make that difference.

The final cost for each filter is approximately \$40. For a donation of \$35 you can partner with a household for clean water. This is a subsidized amount with the families being responsible for the remaining \$5.

Team ORU with (l) Bro. Jehoshaphat & (r) Pastor Enoch



“For the Lamb at the center of the throne will be their shepherd; he will lead them to springs of living water. And God will wipe away every tear from their eyes.”

Revelation 7:17

How YOU CAN Become a Partner (cont'd)

For these villagers you will bring a gift of LIFE...an opportunity for HIV/AIDS patients to have a better quality and extended life too.

Perhaps your Sunday school class, professional organization, Bible study group, work mates or even your family would like to sponsor a filter for a family.

There are approximately 150 households in the Se-

kute Village and 50 each in Katubiya and Mahaletuna making a total of 250 needed filters.

Thank you for your prayers and support of this project.

Contributions for this project to Light of Africa and sent to our USA address.



Above—Team ORU's Becca teaching hand washing

Left—Mark teaching at Moonga Community School

FILTERS for EVANGELISM

We believe God sends folks into our lives for specific reasons. Sometimes the reason is obvious and sometimes it is later that we see His fingerprints.

About 2 months ago we met a man who works with an organization that drills water wells and does bio-sand training. He shared with us how to install the filters as a tool for evangel-

ism. When placing the filter at the site (home), we will pray a blessing over it and the household. Later, after a week, there is to be a follow up for the filter and its use. This is to make sure it is working without problems and to visit the family again.

What a beautiful and easy way to share the Gospel of Christ! Pastor Enoch and Brother Je-

hoshaphat are very excited to do this work as they are the trained experts with the filter and also under Butch's discipleship.

We are expecting good growth in the Kingdom because of this opportunity!

Pray with us for many to be won to Christ through this awesome opportunity!

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Butch and Janet with Pastor Enoch and supplies for bio-sand project

