

Objective

To provide clean drinking water to all Government Schools on the islands of Koh Samui and Koh Phangan.

Brief

The project will use the Vestergaard Lifestraw Community Filter as part of a water treatment system to provide hygienically clean drinking water to all the children attending Government Funded Schools on our islands.

Rotary Club of Samui-Phangan (RC-SP.) chose Vestergaard to be our partner because they provide a guarantee that their device is pre-tested to .02 microns (99.8% of all contaminants and virus removed) whilst additionally returning a % of the profits to provide their systems to impoverished locations and children.

The project will begin by the RC-SP team conducting inspections of all the Government Schools on the islands to survey the total scope of the works needed. The RC-SP team will then estimate a budget to raise money to complete the project. The RC-SP will then coordinate with various organizations and the local community to raise these funds through various donations and charity events.

A pilot project was completed in 2017 at Wat Lamai School with a recent inspection conducted by the RC-SP team. The project is delivering fresh drinking water to 600 students plus teachers and staff.

Vestergaard Lifestraw Community Filters

<https://www.lifestraw.com/products/lifestraw-community>

Filter Performance and Specifications:

- Purification removes viruses, bacteria, parasites and micro-plastics
- Purifications up to .02 microns
 - 99.99999% of bacteria (E.coli)
 - 99.999% of parasites (Giardia, Cryptosporidium, etc.)
 - 99.999% of micro-plastics
 - 99.999% of viruses (Rotavirus, Hepatitis A, etc.)
- Food grade materials (US FDA 21 CFR standards)
- High capacity: holds 50L at once, ultra-durable for harsh conditions
- Lifetime of 100,00L; 100 people for 3-5 years
- Tested by WHO, USEPA, NSF and ASTM
- Size (assembled): 22." x 22." x 33.5 "
- Size (box): 22.4" x 22.4" x 24.4"
- Replaceable purification cartridge
- All parts are recyclable



Charity Return on Each Product Purchase

- one product = one school child, one year of clean water

Maintenance

- Built in back-wash handle to ensure longevity of the purification cartridge
- Weekly basic cleaning of the safe water tank

* User Manual in 4 languages with other language manuals available upon request

Standard System Set Up

Based on a school of 250 People (students, teachers and support staff)

- 3 x Vestergaard Lifestraw Community Filters
Water cooler tank/ 6 taps with tap locks
- Pre-Filter Activated Carbon/ Iodine 1000 – Auto Backwash
- Ultraviolet Water Purifier for the Tank (15w)
- Stainless Steel Tank (1,000L)
- Vending Machine
(100L – 500 L/Day at 1 THB / L = approx. 500 THB / Week)
- Pump, Plumbing, Electrical
- Installation
Including Lockable Cage, Platform, Roofing, etc.
- 2 x Spare membrane Filters

Project Budget and Fund-Raising

Installation Budget

RC-SP initial rough estimates expect around a total project budget requirement of THB 5.5 Million/ \$US 175,000 just for Koh Samui and (7-8 MillionTHB/ \$US260,000 inclusive of Koh Phangan Projects) and with our fundraising campaign underway both locally and Internationally, promises are already in hand from some of our Sister overseas Rotary Clubs.

Additional Project Support

The Vestergaard Lifestraw Community Filters offers purification levels up to .02 microns but unfortunately the best the RC-SP team can find in Thailand is testing up to .8 microns. This is the current American standard, however our most common water borne virus' in Thailand (Rota and Noro Virus; causes of food poisoning) are commonly under .8 microns.

Projects would benefit from find funding or a partner company to provide water testing down to .02 microns to ensure the maintained purity of the system.

