

Installation report of 20 Bio Sand Filter for Phayao

The Rotary Club of Coquitlam, Canada developed a project in Phayao to improve life quality of the villagers through an appropriate drinking water supply. The Rotary Club of Coquitlam, Canada, appointed the Raintree Foundation to carry out this project.

We at Raintree Foundation produce and install Bio Sand Filters for at least three years and know the reliability and sustainability of these filters. This kind of water filter is designed to produce enough drinking water for one household. One unit can produce up to 80 Liters of clean and safe drinking water a day. The Bio Sand Filter works like a natural filter, as for filter media, we only use sand and two different sized stone layers. We do not use any kind of charcoal and therefore the need to replace the filter media doesn't exist.

On Sunday 21st we started to load all the filter media and the 20 filter bodies to a hired six wheel truck. All the spare parts like funnel, chlorine and diffuser plate we need for installation were loaded to another pickup truck. We then started our 4 hours drive to Phayao. Once arrived, we unloaded the truck.

Next day on Monday 22nd there was a welcoming celebration, where two couples of the Rotary Club, Canada were present as well; Dave & Wisupha Allen as well as Bernie Pregler and his wife. After the welcoming ceremony, the two technicians of Raintree Foundation, Khun Stefan and Khun Eak held a basic introduction of the Bio Sand Filter, explaining the benefits and how to use the filter properly. The introduction unit was held in English and Thai. The twenty families which received a Bio Sand Filter were attending this session and followed the lesson with great interest.

After a delicious lunch, prepared by the local community, we started to install the 20 Bio Sand Filter. The installation went very smoothly with the great help of a villager, who directed us to the designated houses.

After the installation we had some time to deepen these families understanding about the filters and answered their questions.

We learned that these villagers spend between 100 and 250 Thai Baht for drinking water per month. We quickly did the math and figured that such a Bio Sand Filter could be amortized



มูลนิธิ บ้านต้นน้ำ

31 หมู่ 13 ตท่าวังตาล. อ สารภี.จ.เชียงใหม่ 50140

31 Moo 13 Thambon Thavangtan

Ampher Sarapi Chiang Mai 50140

Helping through education for a better future

www.raintree-foundation.org

Phone: 085 716 1192 Fax: 053 124 458

Email: info@raintree-foundation.org

within one year.

In about three weeks we will visit this project again and check on each filter and answer possible questions from their owners.

We are confident that these filters will last well beyond 10 years.

The Raintree Foundation

Stefan Geiger

Technical Advisor



BioSand Filter production in Lamphun



Loaded Truck



Scenic spot over Phayao



Thai consulting



Sponsor, Rotary Club from Canada



Introduction lesson to the BioSand Filter



Study the BioSand Filter Manual



BioSand Filter with new owners



Sponsor and new BSF owner



Thai style transportation



Installation of the first BioSand Filter...



... with a great local helper