

**CLEAN DRINKING WATER SYSTEMS IN SCHOOLS (CDWS) PROGRAMME**

Thailand is generally blessed with ample water resources, but the availability of clean drinking water is often a problem. Many children in rural Thailand drink untreated rain or well water at their schools, which can make them ill and impair their studies.

In many cases, well water is simply undrinkable, and communities must bring in supplies in trucks, especially in the dry season. However, even when tap is available, or water is trucked in, it is not treated to the standards considered satisfactory in say Europe, North America or Australia, and can still cause illness or discomfort. Even in Bangkok no-one drinks water from the tap unless they have to, and people in rural areas have far less money available to buy bottled water.

In 1996, the Rotary Club of Bangkok South (RCBS) initiated a project to install water purification systems in upcountry schools, thus ensuring that the children have clean water throughout the year. The first systems used Ultra Violet filtration technology, were relatively expensive and required high levels of maintenance. Around 40 of these were installed from 1996-2001. In 2001, cheaper and more easily maintained Reverse Osmosis systems became available in Thailand and these have been used since, with almost 450 (443) installed or in the pipeline (at December 2011). Reverse Osmosis technology is widely used by municipal and private enterprise drinking water plants of all sizes around the world. Tests of water from RCBS-installed systems reveal it to be cleaner than locally bottled water.

A standard system costs between Baht 85-105,000 (USD 2,700-3,400/Euro 2,100-2,600) depending on which type is required and where the school is located. There are two types:

- Type A – for relatively dirty water (usually tap, truck and rain water);
- Type B – with extra filters (and more expensive) for dirtier water (usually well water).

Properly maintained, a system can provide clean drinking water for up to 350 students continuously for over 10 years – that is, a cost of US\$0.0023/Euro 0.0018 per child per day.

Each project is a joint venture between RCBS, the local Rotary Club in the area, the local community, and any sponsor(s). RCBS and sponsor(s) provide the funding for the system and its installation, as well as a Baht 25,000 fund for ongoing maintenance (enough for up to 5 years), and overall management of the project. The local Rotary Club supervises the project on the ground and also holds the maintenance fund in trust for the school (funds are not given directly to the schools). The local community funds and builds a shed (to detailed specifications provided in Thai) to house the system (most can do this within 6-8 weeks). The system is provided at cost by the supplier and comes with a 12-month warranty, on the spot maintenance tuition and instructions, and a follow up inspection 6-12 months later. Personal visits to, and surveys of, existing systems have shown them to still be producing clean water after 6 or 7 years so far.

Funding comes from a variety of sources:

- RCBS's own fund raising activities;
- Sponsorship packages, ranging from Baht 25,000 for a "Water Fellow" to system sponsors in multiples of Baht 50,000. Sponsors include individuals and corporates, professional organizations (such as a German Dentists' Association), and even the Australian Government;
- Other Rotary Clubs locally and around the world, on a direct club to club funding basis; and
- Rotary Matching Grants.

The Rotary Club of Bangkok South undertakes to fund or locate funding for the balance of each project sponsored, and whenever possible attempts to put some of its own money into each project.

All projects have hands on involvement of RCBS members. Schools can be nominated by local Rotary Clubs, RCBS members and friends, in fact, almost anyone. But each must meet qualifying criteria as to size, location and prosperity – less than 400 students, outside main towns, and poor! Water samples are scientifically tested by the system supplier to determine the type of system (A or B) required. In many cases, installation of one of our systems means that previously undrinkable on-site well water can be consumed, thus savings schools the cost of having to buy in water when rain water supplies are exhausted (which can be for over 6 months in some parts of the country).

We aim to install around 20-30 systems each year, and since 1996 have put in going on 500 in 33 provinces (out of 77) throughout the country, providing clean water for about 150,000 students. 52 local clubs have participated in the programme. See later for lists of participating Thai and overseas Rotary Clubs and Districts, as well as a list of some of our sponsors.

All donors, whether formal sponsors or other Rotary clubs, receive a certificate of appreciation, recognition on a sign at the site, and mention in our annual year book which issues each June. Larger sponsors receive a range of other benefits and details of sponsorship packages are shown on Page 4.

### **CONTACTS**

For further information visit our website at [www.rotarybangkoksouth.org](http://www.rotarybangkoksouth.org) or contact the following persons:

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### **PARTICIPATING CLUBS IN THAILAND**

Andaman, Phuket	Lomsak, Petchabun	Pranarai, Lopburi
Angthong	Maechan, Chiang Rai	Sakhon Nakhon
Ao Luk, Krabi	Maesot-Muangchod, Tak	Sawankhalok North, Sukhothai
Banchiang, Udon Thani	Maha Sarakham	Sila Asana, Uttaradit
Bangkok Suwannaphum	Meuang Lampang, Lampang	Singburi
Banmi, Lopburi	Nakhon Ratchasima	Singburi Veerachon
Buriram	Nakhon Thoeng, Chiang Rai	Sisaket
Chalerm Prakiat, Saraburi	Nan	Song, Phrae
Chiangkham, Phayao	Naresuan, Phitsanuloke	Surin
Chiang Rai North, Chiang Rai	Nongchang, Uthai Thani	Tak
Chiangsaen, Chiang Rai	Nongbua, Nakhon Sawan	Tharua, Ayuthaya
Chumpae, Khon Kaen	Paramesual, Lopburi	Thoen Downtown, Lampang
Chumporn	Petchburi	Watsingh, Chainat
Doy Prabhat, Lampang	Phan, Chiang Rai	Wieng Kosai, Phrae
Krabi	Phangnga,	Uthai Thani
Lampang	Phrae	Uttaradit
Lamphun	Phuket	
Lomkao, Petchaburi	Pranakorn Sri Ayuthaya	

**PARTICIPATING CLUBS AND DISTRICTS OUTSIDE THAILAND**

Bruxelles-Vesale, Belgium	Nibe, Denmark
Burien White Center, Washington, USA	Palm Desert, California, USA
Campbell River, British Columbia, Canada	Palm Springs, California, USA
Damariscotta-Newcastle, Maine, USA	Perris, California, USA
Danville, California, USA	Port Alberni, British Columbia, Canada
Danville/Sycamore Valley, California, USA	Port Alberni-Arrowsmith, British Columbia, Canada
Esslingen-Neckarland, Germany	Port Orchard, Washington, USA
Foster City, California, USA	Port Townsend, Washington, USA
Fukuoka-West, Japan	Rancho Mirage, California, USA
Gummersbach-Oberberg, Germany	Rennes du Guesclin, France
Happy Valley, Hong Kong, China	Rialto, California, USA
Hong Kong Island East, Hong Kong, China	Riverside, California, USA
Hurst-Euless-Bedford, Texas, USA	Rotary International District 2500, Japan
Hyde Park, South Australia, Australia	Rotary International District 2580, Japan
Idyllwild, California, USA	Rotary International District 2820, Japan
Isesaki, Japan	Rotary International District 2840, Japan
Izumisano, Japan	Rotary International District 5000, Hawaii
Kaizuka, Japan	Rotary International District 5260, California, USA
Kaizuka Cosmos, Japan	Saltspring Island, British Columbia, Canada
Kamakura-Ofuna, Japan	San Bernadino, California, USA
Katy, Texas, USA	San Bernadino Breakfast, California, USA
Kowloon Golden Mile, Hong Kong, China	Scott Valley, California, USA
Kushiro Bay, Hokkaido, Japan	SeaTac, Washington, USA
Lake Arrowhead, California, USA	Seattle, Washington, USA
Las Vegas, Nevada, USA	Shelton, Washington, USA
Lee's Summit, Missouri, USA	Sherman Oaks Sunset, California, USA
Lee's Summit Sunrise, USA	Stockton, California, USA
Leonberg Weil der Stadt, Germany	Surfer's Paradise, Queensland, Australia
Macau, China	Suzuka Bay, Japan
Martha's Vineyard, Maryland, USA	Temecula, California, USA
Mercer Island, Washington, USA	Tokyo, Japan
Minerva, Amsterdam, Netherlands	Tokyo-Nihonbashi, Japan
Moraga, California, USA	Tulsa Midtown, Oklahoma, USA
Morehead City-Noon, North Carolina, USA	Walnut Creek, California, USA
Nanaimo North, British Columbia, Canada	West Ottawa, Ontario, Canada

**SOME OF OUR PAST AND PRESENT SPONSORS**

The Australian Embassy, Bangkok (19 systems)  
The Australian-Thai Chamber of Commerce (2 systems – plus own systems using RCBS design/format)  
Blackmores Ltd (2 systems)  
The British Chamber of Commerce Thailand (8 systems)  
Camden High School Student Representative Council 2005 (Australia)  
CB Richard Ellis (Thailand) Co., Ltd (18 systems)  
The Dutch Society Thailand  
Stiftung Hilfswerk Deutsche Zahnaerzte (4 systems – a German dentists' association charitable fund)  
Graduate Class 1963-64 of Science High School, Eschweiler, Germany (6 systems)  
Indo Rama Enterprises Co., Ltd  
Laguna Street Primary School, Caringbah (Australia)  
Novartis Thailand Limited (12 systems)  
The Pitak Foundation (2 systems)  
Post Publishing Pcl/Bangkok Post  
Raimon Land Public Company Limited (4 systems)  
Sunflag (Thailand) Co., Ltd  
Swains International Plc  
The Swiss Embassy, Bangkok (5 systems)  
The Swiss Society Thailand  
TNT Express Worldwide (Thailand) Co., Ltd (6 systems)

## SPONSORSHIP PACKAGES

<b>SODA PACKAGE THB 50,000</b>	<b>WINE PACKAGE THB 100,000</b>	<b>CHAMPAGNE PACKAGE THB 150,000</b>
You receive a sponsorship for half of <b>one</b> water treatment system;	You receive a sponsorship for one full system or half of <b>two</b> water treatment systems;	You receive a sponsorship for one full and one half system or half of <b>three</b> water treatment systems;
Your company logo and name will appear on the plaque installed at the system location;	Your company logo and name will appear on the plaque installed at the system location;	Your company logo and name will appear on the plaque installed at the system location;
You will be invited to attend the opening ceremony of the system;	You will be invited to attend the opening ceremony of the system;	You will be invited to attend the opening ceremony of the system;
You will be invited to one of our Club's weekly luncheons where you will receive recognition and a framed certificate of appreciation and lapel pin;	You will be invited to one of our Club's weekly luncheons where you will receive recognition and a framed certificate of appreciation and lapel pin;	You will be invited to one of our Club's weekly luncheons where you will receive recognition and a framed certificate of appreciation and lapel pin;
You will be recognized in our year book, published each June;	You will be recognized in our year book, published each June;	You will be recognized in our year book, published each June;
	You will receive 1 free Gate at our major annual fund raising event, Coins on Silom;	You will receive 1 free Gate at our major annual fund raising event, Coins on Silom;
	You will receive 2 tickets to our annual Installation Ball, held each June;	You will receive 2 tickets to our annual Installation Ball, held each June;
	You will receive a free half page colour advertisement in our annual year book;	You will receive a free half page colour advertisement in our annual year book;
		You will receive two free advertisement inserts in our weekly newsletter, the South Wind, over a 12 month period;
		You will receive two free tickets at our annual Paul Harris/Luang Sit Dinner (held around March)
		You will receive mention and a URL link on our Club Website.
All sponsors are also acknowledged in the Fund Raising section of our Website.		
<b>THANK YOU VERY MUCH. WE APPRECIATE YOUR HELP</b>		

**WATER FELLOWS:** Receive a smaller certificate, a pin, plus mention on the sign and in the yearbook.