

# Clean Drinking Water for the Orang Asli in Malaysia

By Trunz Water Systems AG

Malaysia - As a result of littering, overfertilization and environmental influences the raw water sources in the Cameron Highlands are contaminated with virus and bacteria. Consumption of such water leads to major health affecting diseases - and as a chain reaction to less productivity, less income, less education for children and so on. Remote villages of orang asli (aborigines) are concerned of this problem. The orang asli live in the jungle of Malaysia and have no access to drinking water supply. The Government of Malaysia developed The Malaysian Transformation Program to provide drinking water to the inhabitants of remote villages.

## The Malaysian Transformation Program

The Program, defined by the Ministry of Rural and Regional Development, started in 2010. The project targets a successful implementation of decentralised clean technology which works under harsh conditions and provides a long-term and sustainable solution.

In order to incorporate all involved stakeholders, the programme consists of several steps beginning with site-inspections and requirement check, equipment procurement, house and fence building, equipment installation, technical training and education on health issues. Every step is conducted by a professional team of experienced project managers, scientists and local representatives. [www.trunzwatersystems.com](http://www.trunzwatersystems.com)

It was during the project managements data collection and technology investigation when they first learnt about Trunz Water Systems. The Trunz Company supplies sustainable, eco-powered water treatment systems that



Figure 1: Transportation of Water Treatment Systems by the Boat to Reach the Remote Villages



**“In order to maintain the equipment, local people have been trained and are now responsible operators for weekly checks.”**



are specialized for decentralised application. Together with representatives of Trunz Water Systems a second field visit was executed and a final technical layout for the water treatment equipment was agreed.

### Health Conditions of the Orang Asli Improved Thanks to the Project

As a 'pilot-project' a community water and pumping station was built in 22 villages. Each of these stations provides up to 15,000 liter per day of free drinking water for all local inhabitants (Ø 250 liter per person). Thanks to this decentralised water supply solution, the people living in the villages of Cameron Highlinds not only profit from clean drinking water which is tasteful and free of odour. The most important point remains the positive impact on their health conditions.

In order to maintain the equipment, local people have been trained and are now responsible operators for weekly checks. 3-monthly service however remains in the responsibility of a partner company who fulfils a service contract for the complete project.

The people in the remote villages have now a tailor-made solution for sustainable infrastructure which leads to an improvement in the quality of life.



Figure 2: The Trunz Water Box TWB 002 in the Water and Pumping Station



Figure 3: The Minister of Education is Testing the Clean Drinking Water

### About the Contributor

The Swiss based company Trunz Water Systems develops, manufactures and distributes sustainable and cost effective solutions for water purification and desalination as well as solar power centres. The company offers sustainable solutions for the decentralised potable water and electricity supply in remote areas. The units are exceptionally energy efficient, independent, compact and environmentally friendly. Up to now, the Trunz Water Systems are already operating in more than 30 countries all over the world. All of the water treatment systems need low maintenance and are easy to install. The capacity depends on the raw water quality and ranges from 7'000 to 50'000 litres a day.

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