

CASE STUDY MALAYSIA

INDEPENDENT DRINKING WATER SOLUTION

Client

Ministry Of Rural and Regional Development

Location

Rural area in State of Pahang Darul Makmur

Introduction

Under the Malaysian Transformation Programme, the Ministry undertake to supply clean treated water to remote villages for orang asli (aborigines) for 25 villages. The programme consists of several steps beginning with site-inspections and requirement check, house and fence building, equipment installation, technical training and education on health issues.

In the first phase, they will build a community water and pumping station in 22 villages. This station provides up to 15'000 liter per day of free drinking water for all local inhabitants.



On-site conditions

Access to location	very difficult, 4 wheel drive (jungle)
Ø amount of people served	approx. 60 people per village
Water sources	waterfall, well
Common contamination in raw water	organic contamination
Ø distance from source water to unit	approx. 60-80 metres
Ø water temperature	20 – 30° C
Ø air temperature	25 – 35° C
Site preparation work	pump house construction, fence, water tank
Ø sun radiation	5 hours



Technical layout

1 Water source (waterfall) and feed pump 24V
2 Raw water tank and feed pump 24V with 20 m hose
3 Solar panels, 24 V, 160 Wp
4 Power Center TSPC max-700 (Batteries, Inverter, Controller etc.)
5 Trunz Water Box (TWB 002, Ultrafiltration), approx. 800 l/h

