

CASE STUDY NIGERIA

CLEAN DRINKING WATER FOR CHILDREN'S HOME

Client

DINNOEDHJAELP – Children's Home – www.dinnoedhjaelp.dk

Location

Nigeria

Introduction

The Danish/Nigerian organisation DINNOEDHJAELP is home to around 70 children. The organization built and opened a new compound 2017 consisting of several buildings such as kitchen, sanitary, boys house, girls house, community room, medical house, etc. Some of the buildings are supplied with water from a collection tank. As the water is exposed in the heat outside and likely contaminated, it's not for drinking purpose. Trunz and other Swiss donors established a charity project in order to scale up the existing infrastructure and provide clean, safe water for the children and staff living and working within the compound. Tanks and a piping system were already available and installed. It was therefore decided to choose the Trunz Wall Mounted Unit LIGHT – one for each of the 5 buildings.

The water treatment units are connected to the existing piping network. Instead of electrical pumping of water, the units make use of gravity that provides enough pressure to filter the water. The integrated ultrafiltration membrane removes all virus and bacteria. The following activated carbon filter removes odour and taste. An additional advantage is the water treatment at the Point of Use (POU). This reduces the risk of recontamination.



Ø amount of people served	approx. 80 people
Water source	water collection tank
Common contamination in raw water	biological contamination
Ø distance from source water to unit	30-40 metres
Ø water temperature	approx. 20-25° C
Ø air temperature	approx. 30° C
Site preparation work	none, installation within house piping network

Technical layout

- 1 Overhead / collection tank, 30 metres above
- 2 Trunz Wall Mounted with TWM LIGHT (incl. pressure reduction valve)
- 3 Inhouse piping system for distribution of clean drinking water

**DIN
NØD
HJÆLP.DK**

