

DRINKING WATER FOR RURAL COMMUNITY IN GHANA



Akim Wenchi village, Ghana, 2021



Community Water and Sanitation Agency



water utility operator



drinking water treatment



iron, manganese, and bacteria removal



10m³/day serving 12,000 ppl

A modular, small size drinking water treatment unit, PurAID® has been installed in September 2021 in Akim Wenchi, Ghana. PurAID® is supplying 10m³/day drinking water for local people. The treatment unit was installed at a borehole next to the local Community Water Sanitation Agency (CWSA) office enabling the easy mastering of the operation. PurAID® supplying WHO compliant drinking water after removal of iron, manganese, and bacteria. The removal of contaminants is carried out by our own adsorbents and filter materials, this technology does not require the use of harmful chemicals, so the environmentally friendly backwash water is discharged into the rainwater ditch/sewer. Currently, the unit is plug and play technology with a daily energy consumption of 1-2 kWh. Green and sustainability guidelines are crucial for us therefore our engineering team is developing the solar based operation. The key element of the



simple running is the developed monitoring system which allows remote supervision of PurAID® unit. With a connected water supply of up to 30 installed PurAID® units, we can maximize the economical operation to cover a whole area from one service centre with one computer which is our aim to reach in Eastern Region.

