

Feasibility Study of Aquawall - An Alternative for Conventional Rain Water Harvesting System

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Abstract: Rainwater harvesting has been an age-old activity, practiced by many cultures in areas of poverty and wealth, but unfortunately our urban communities discard using it due to ignorance and lack of education. The challenge is to change the attitude of the state agencies responsible for environmental policy to make population being part of water saving, reduction of vulnerability and adaptation to climate change with rainwater harvesting. In our urban space limitations make it necessary to propose a system of "vertical water tank" that fulfills this function. The Aquawall project is based on the appropriate technology and the circular economy, made by self and is designed in a modular way, taking up minimal space, made of nine towers of six three-liter bottles each, connected to a PVC base

Keywords: rainwater harvesting, aquawall, vulnerability, adaptation