# Drilling for water in Bangladesh

A water supply well at a depth of 350 metres is currently being created in Dhaka, Bangladesh. This is of Dutch make and forms part of a unique partnership project between Vitens Evides International (VEI) and Dhaka Water Supply and Sewerage Authority (DWASA).

*Jeroen Boode*

"As well as providing the water supply, the system should also serve as blueprint for future water supply wells. Local expertise is still lacking, which is why Vitens Evides International is offering the Bengalis training in the technologies used and transferring knowledge of materials. Boode is proud to be supplier in this special Dutch project", explains Jeroen Boode from Boode BV.

Boode is a family company, established in 1897 as water well drilling company. The company gradually expanded to become global specialist in the production and delivery of materials for groundwater abstraction. Boode's core task is to produce so-called water well casing and screens that ensure the flow of water in the tube/casing so that water can be pumped from the bottom. Boode produces largely for the European market and is also a supplier of related products such as stainless steel screens. The Boode company places a high priority on supplying high-quality products and service, and offering customisation, fast delivery and flexibility.

Boode participates in various projects, including supplying materials for the Rotterdam Markthal heating and cooling system, as well as PVC water well casing and screens for drinking water sources for the Surinamese water authority.

# More water

More recently, materials have been delivered for one of the Vitens Evides International water company projects in Bangladesh. "One of the goals is to improve the drinking water supply in slums by regenerating existing water supply wells and drilling for a new water supply well. We have been contracted to generate considerable water output using the best materials in a cost-efficient way."

Mario van Emmen VOF and Vitens Evides International asked Boode to create a sustainable solution for this, resulting in the selection of a combination of a Boode PVC casing with a stainless steel Johnson water well screen. "A PVC casing is significantly cheaper than a stainless steel one and for this situation offers the best and most cost-efficient solution. It is not a common combination, so we needed to customise this. A thick-walled tube/casing was also used as this needs to be able to withstand a certain pressure considering the depth at which the water is located. Sensors are also positioned inside the supply well itself to monitor water levels", continued Jeroen Boode.

The project did have a few challenges. The groundwater is located at considerable depth beneath the ground surface, some 70 m deep, and it was not easy to find a suitable aquifer (a water-bearing layer). These are located some 320 to 350 m deep. "It will also be a challenge for the future to offer good training for the local population. After all, what they learn needs to be a sustainable factor."



http://www.overwater.nu/boren-naar-water-in-bangladesh

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