



Design of 24-by-7 Water System Reduces Health Risks in India

By Bentley Systems

Supplying potable water to dense populations in developing countries is a perpetually daunting task for water service providers. It is one reason why 1.6mn people die each year from diseases due to poor service provided by an intermittent water supply. In India, for example, daily water supply ranges from just 27 litres per capita per day (LPCD) in poor areas to 160LPCD in affluent areas, compared to 260LPCD in a typical U.S. single-family home. During non-supply hours, pipes remain empty, and dirty water enters the pipeline at vulnerable spots, causing contamination and associated health risks.

Badlapur, India, part of metropolitan Mumbai, is one city stepping up its effort to supply its growing population with a

24-by-7 system. This will be a first for the country as currently no Indian city receives water around the clock. When the water supply source for Badlapur was severely damaged by a severe rainstorm in July 2005, construction of a new barrage gave occasion to optimise the distribution system for continuous

Project Overview

Transforming Intermittent Water Supply of Developing Countries to 24x7 System

Organisation

Maharashtra Jeevan Pradhikaran

Solution

WaterGEMS

“Technical innovation showcased as inspiration for other water utility authorities.”

