Safely harvesting rainwater for industry

May 30 2022, by David Bradley

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As the pressures of climate change begin to bite particularly hard in the developing world and in regions on the margins of extreme environments, water security is becoming increasingly difficult for many people. A review of rainwater harvesting technologies, some of which date back centuries is reported in the *International Journal of Water*. The

review offers a range of solutions to the problem of safely harvesting rainwater for domestic and agricultural irrigation, for gray-water applications such as laundry, and even for obtaining and treating water to bolster the drinking water supply.

Raseswari Pradhan of the Department of Electrical Engineering at VSSUT Burla and Jaya Prakash Sahoo of Central University both in Odisha, India, recognize that there is a vast array of solutions to harvesting and storing water that might incorporated into a city-based strategy for water supply in the modern smart city. Even though many of the approaches are superficially simple, they have been tried and tested over many years. Of course, any approach undertaken will require that the ethos of rainwater harvesting be adopted widely and wholeheartedly. Any approach taken does not preclude mismanagement and nor does it ensure that it will rain.

The team's survey of the various different approaches offers a roadmap for architects and planners in arid regions of the world who can ensure the maximum benefit is gained when the rain does fall.

More information: Raseswari Pradhan et al, Smart rain water harvesting techniques, *International Journal of Water* (2022). DOI: 10.1504/IJW.2021.123065

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