

# **OPPORTUNITIES AND LIMITATIONS IN PRACTICING RAINWATER HARVESTING SYSTEMS IN BANGLADESH**

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## **ABSTRACT**

The development of a society is significantly dependent on the availability of healthy water. But presently like all the other parts of the world, Bangladesh is facing increasing scarcity of water resources. At this situation, sustainable management of fresh water can be ensured by utilization of alternative water sources. As Bangladesh is privileged by huge quantity of rainwater annually all through the country, rainwater harvesting can be the most potential alternative water supply option for Bangladesh. This paper investigates different local and traditional rainwater harvesting systems practiced in most of the coastal areas of Bangladesh and modern rainwater harvesting systems practiced in urban areas specially in Dhaka city. In spite of being very potential alternative water source, these systems are associated with some limitations. The limitations of both the rural and urban rainwater harvesting systems have been reviewed in this paper through the investigation on the existing systems. To execute these systems more adequately and sustainably some recommendations have been also made as future steps.

**KEYWORDS:** Suitability of Grey Water Recycling, Limitations, Rainwater, Harvesting, Systems