



Ref: EPCET/RWH/01/2021-22

Rain Water Harvesting

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Rain water harvesting system was incorporated and has been installed in the college building. The water from rooftops and floors is collected through down pipes and discharged in the ground as well as in recharge pits near borewell through pipe lines in the campus. The rainwater harvesting is a technique to capture the rainwater when it precipitates, store that water for direct use or charge the groundwater and use it later.

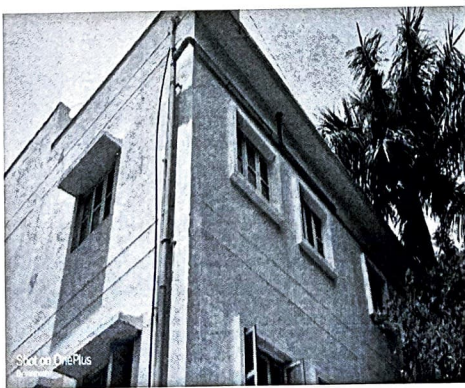
If rainwater is not harvested and channelized its runoffs quickly flow out through storm- water drains. For storm-water management the recharge pits, percolation pits and porous trenches are constructed to allow storm water to infiltrate inside the soil.


Rainwater Harvesting System of the College

The college has total build-up area is about 810 m². The average annual rainfall 980 mm and runoff coefficient 0.86 are considered for college building. The following Mathematical Equation is used for the calculation.

$RWH \text{ Potential} = \text{Rainfall (m)} \times \text{Area of catchment (m}^2\text{)} \times \text{Runoff coefficient}$

Estimated rainwater harvesting potential for the college is about 700 m³/year.




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