



Study on supply-demand gap of rooftop rainwater harvesting in residential premises

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Abstract : Study was conducted on supply-demand gap of rooftop rainwater harvesting in residential premises based on rainfall analysis in TNAU Campus, Coimbatore. The present study aims at the role of rooftop rainwater harvesting to facilitate the local needs of TNAU campus to evaluate the technical feasibility and economic viability of rooftop rainwater harvesting system in individual buildings of B type block, C type block, D type block, P.G hostel, P.P.C hostel, Tamizhagam hostel and different buildings in combinations. All hostel buildings combination and all residential blocks combination buildings can generate 34, 48,464 and 40, 92,611 litres of water per annum, respectively. Due to rooftop rainwater harvesting a sum of Rs. 1,03,454 and Rs. 1,22,778 per annum would be saved from all hostels and all residential blocks combination which otherwise could be incurred from transporting water from tanker to these buildings combinations.

Key Words : Rainwater harvesting, Rooftop rainwater harvesting, Supply- demand gap

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