

## ABSTRACT

Water is the basic and crucial need for existence of life on planet Earth. Water is consumed in various means and ways in our daily life. Water is used on a larger scale for agricultural, industrial sector, residential sector etc., In the current scenario, High Rise Building culture is trending in Madurai District owing to Population explosion, Industrialization and urbanization. Water covers 70% of the earth and only 0.4% is surface water which is available for human consumption. Water is a limited resource and each drop of water has to be diligently used. The objective of the research is to study the existing Water Management in High Rise Buildings of Madurai District and to suggest Engineering solutions for a Sustainable Water Management in terms of Rain Water Harvesting, Smart water metering, Water Leak Detection Mechanism etc.,