

# Application of Deep Learning of Rain Water Harvesting and Recycling Water to Live with Solar System

Dr. K. Phalguna Rao

Assistant Professor, CSE of SVEC, Tirupati, Andhra Pradesh, India

## ABSTRACT

**Green water management in the climate changes the raining season full rain water can flow** However water reuse is good for growing crops. know from our childhood that another name of life is water, without water man can't survive, can't continue to live. rain water harvesting and how rain water reinvesting? Rainwater harvesting (RWH) including best practices of using harvesting systems in urban areas for troubleshooting, and advice about tanks and systems and sourced from where and reuses for life & live. We here discuss widely use for residential and some industrial applications that collated rain water process of gathering, then conduits through pipe thereafter the action or method of storing something for future use. Use solar system to filter the water that is useful to use humans to drink the water and use for cooking and washing and use in the industry.

**KEYWORDS:** Deep Learning, rain water, solar system

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## INTRODUCTION

Rain water harvesting collects the rain water from plot surface and send to under ground water tank rain water harvesting is differ from storm water collected fro the roofs rather than roads and gardens and drains.rain water harvesting is the simplest method to supply the water self supply of water. It is a house hold scale project users can finance. The large organizations can use this system it can run up by organizations financed by them self.

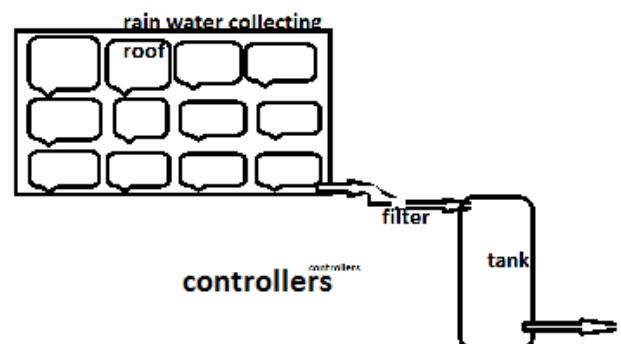
### A. Industry

The airports using this rain water harvesting system this system saves millions of water ever year.

### B. Specifications

The open well without filling sand and jelly rain water can stored in water tank or sump or used for ground recharge. A combination of two can be used for to achieve good results. Use some components for rain water harvesting system. Catchment surface, catchment area, roofing material, pipes for rainwater draining.

1. Collecting system
2. Inlet filters
3. Flush diverter
4. Water tank
5. Controls
6. Power supply
7. Water level indicator.
8. Roof top solar hydro panel.
9. solar powered water purification system
10. Sprinkler Automatic shut of devices.
11. Design diagram



### C. Equations

Monthly rain water collecting formula  
Monthly rain water collecting = catchment area(roof size)(square feet)\*monthly rain fall(inches)\*conversion factor\*collection factor.

Where roof size is the size of the roof where rain fall collected harvesting system collects rain water 75% to 90% is best system.

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