

**SRI KRISHNA COLLEGE OF ENGINEERING AND TECHNOLOGY
KUNIAMUTHUR, COIMBATORE - 641 008**

DEPARTMENT OF CIVIL ENGINEERING

JAL SHAKTI ABHIYAN EVENT

Theme Title: Roof top & other rainwater harvesting structures in SKCET premises

- **Awareness Campaign on Rainwater harvesting:**

Connecting with people brings you closer to finding solutions for a better society. It creates the bridge that strongly merges the problem-solution cycle. SKCETians talked to the people at the above villages about rain water harvesting and issued pamphlets regarding the procedures to construct the structures of Rainwater harvesting.



Awareness campaign on rain water harvesting @ Sundakkamuthur

- **Rainwater harvesting structures in SKCET premises**

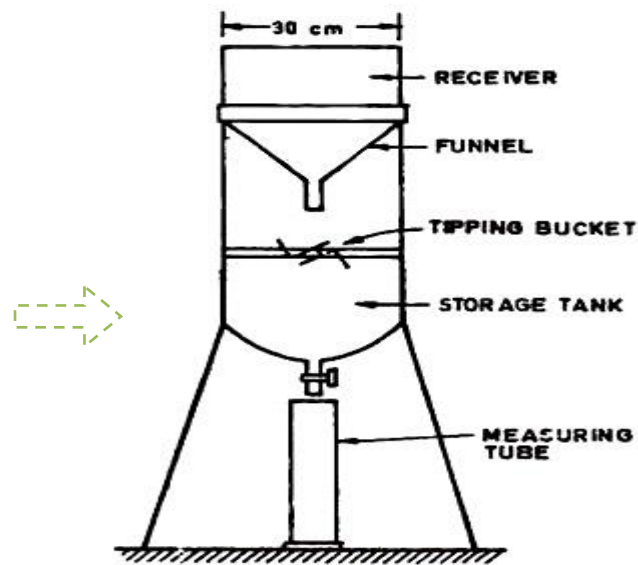
Organizing water conservation workshops to the faculty and students on the campus

Jal Shakti Abhiyan Campaign was organized at SKCET to focus on Every Drop of water has to be saved.

• Installation of rain gauge and rain recording system

Rain gauge and rain recording system installed in our campus classroom block building and Recording of rainfall using the standard or funnel rain gauge is done manually. These gauges work by catching the falling rain in a funnel-shaped collector that is attached to a measuring tube.

These tubes are 8 inches; diameter of the collector is 10 times that of the tube. The rain gauge works by magnifying the liquid by a factor of 10.



Magnifying the rain in this way allows precise measurements down to one-hundredth of an inch. Amounts that exceed the tube capacity are caught in the outer shell of the gauge, allowing the recorder to pour out the liquid in the tube and fill it back up if needed.

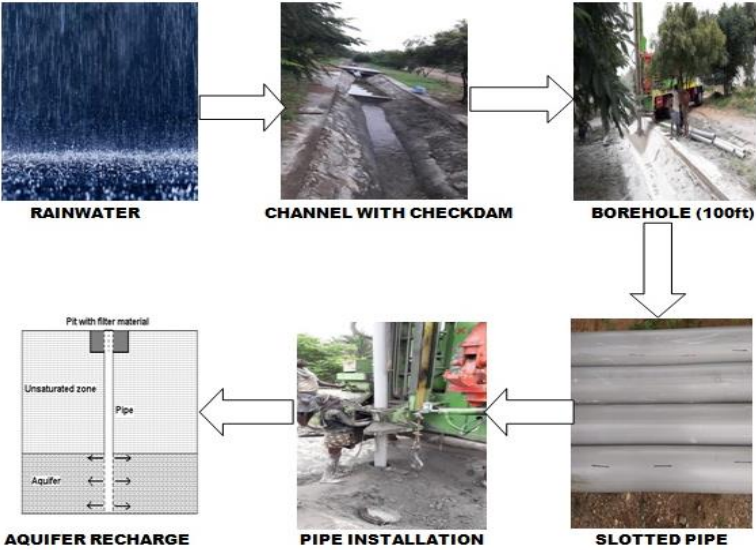
• Steps taken for implementing rainwater harvesting inside the campus

Roof top rainwater harvesting: In our college, we have several rainwater harvesting pits to improve the groundwater level which leads to overcome the water scarcity problems in our campus.

Percolation pit is made with perforated concrete slabs: A percolation pit is made with perforated concrete slabs, through which the rainwater enters in to the underground tank. Grating is fitted before water enters into tank for filtration. Filtered water is collected through perforated pipe and directly mixed with underground water table.

Boreholes Constructed across channel in various places: Infiltration of groundwater has been increased by constructing borehole in campus with a depth of 100 feet around 45 charging bore holes were constructed across the waterway to improve the

Groundwater recharge. The process of ground water recharge through charging bore holes is done by constructing check dams along the water ways so that the water level can be raised and allowed to percolate through bore holes. The 45 numbers of bore-well was made up to 100 feet depth at various points inside the campus since they get the highest amount of rainwater runoff, and hence are ideal locations for recharge wells inside the campus. Filtered water is collected through perforated pipe and directly mixed with underground water table.



• Digging rainwater harvesting pits on the campus

Several rainwater harvesting pits to improve the groundwater level have been installed.

This rain harvesting pits leads to overcome the water scarcity problems in our campus



- **Educating Water Harvesting through workshops/seminars**

Students of SKCET created awareness on Rain water harvesting to the public at Pooluvapatti village, Thondamuthur block Coimbatore.

Renovation of Traditional and other Water Bodies/Tanks

- **Groundwater recharge**

In our Campus for Rainwater harvesting and recharging of groundwater is being done through percolation pit and charging bore using check dams.

The process of ground water recharge through charging bore holes is done by constructing check dams along the water ways so that the water level can be raised and allowed to percolate through bore holes.