



# GLOBAL Institute Of Engineering & Technology

(Approved by AICTE & Affiliated to JNTUH)

Estd -2006

Recognized, Sec 2(f), UGC Act 1956; ISO 9001 : 2015 Certified

Beside Moinabad Police Station, Chilkur (V), Moniabad (M), R.R. Dist., T.S - 501 504.

Phone : 040-66612734, 9951182039.

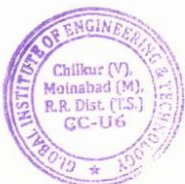
email:gieteng@gmail.com

website:www.globalhyd.edu.in

JNTUH (U6)

EAMCET CODE : GLOB

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Satellite Image of Global Institute of Engineering and Technology



  
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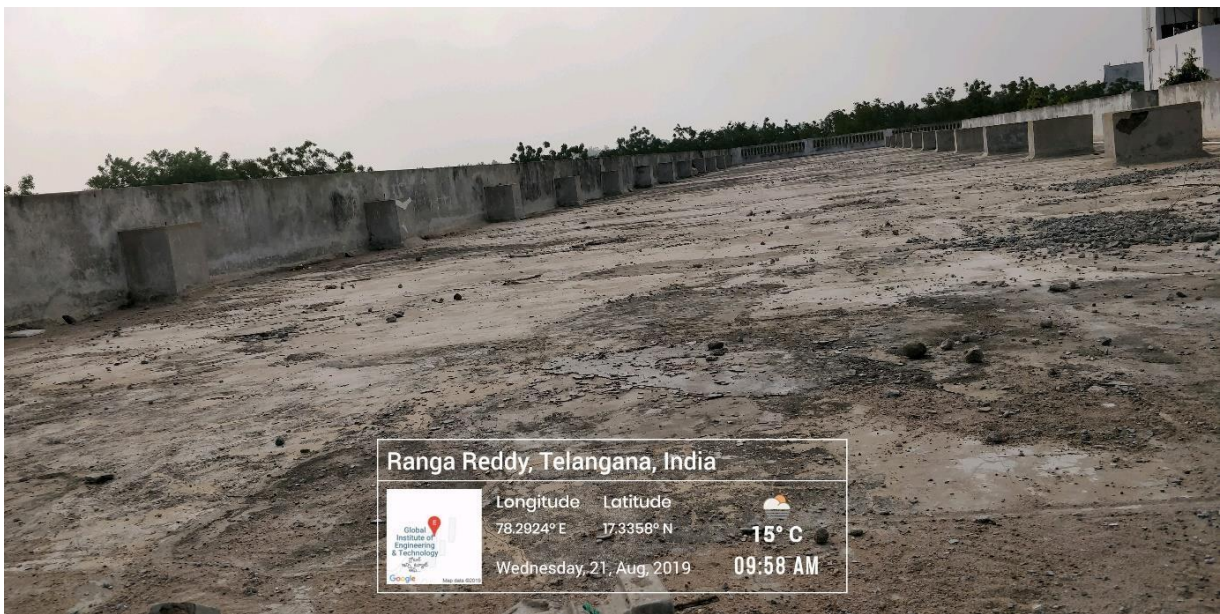
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**Roof Top Catchment Area**



  
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## Collecting Pipe Lines from Roof Top



  
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**Water Collecting Pit**



  
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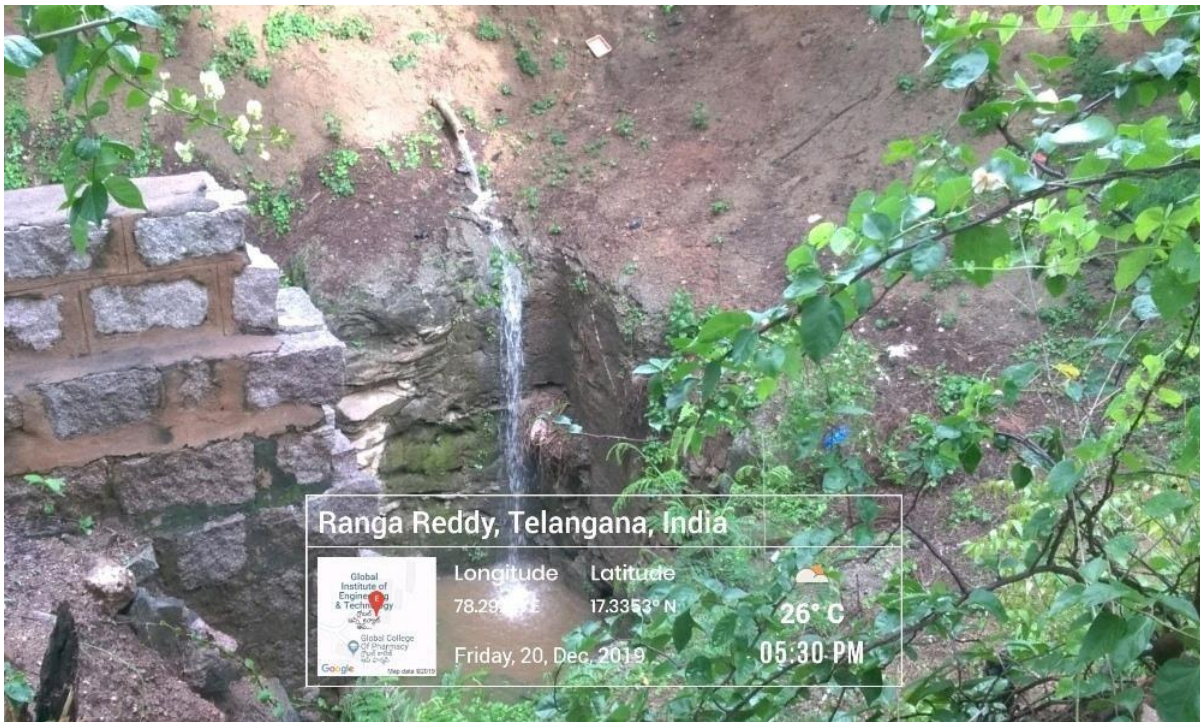
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**Roof Top Rain Water Getting Collected in The pit**



  
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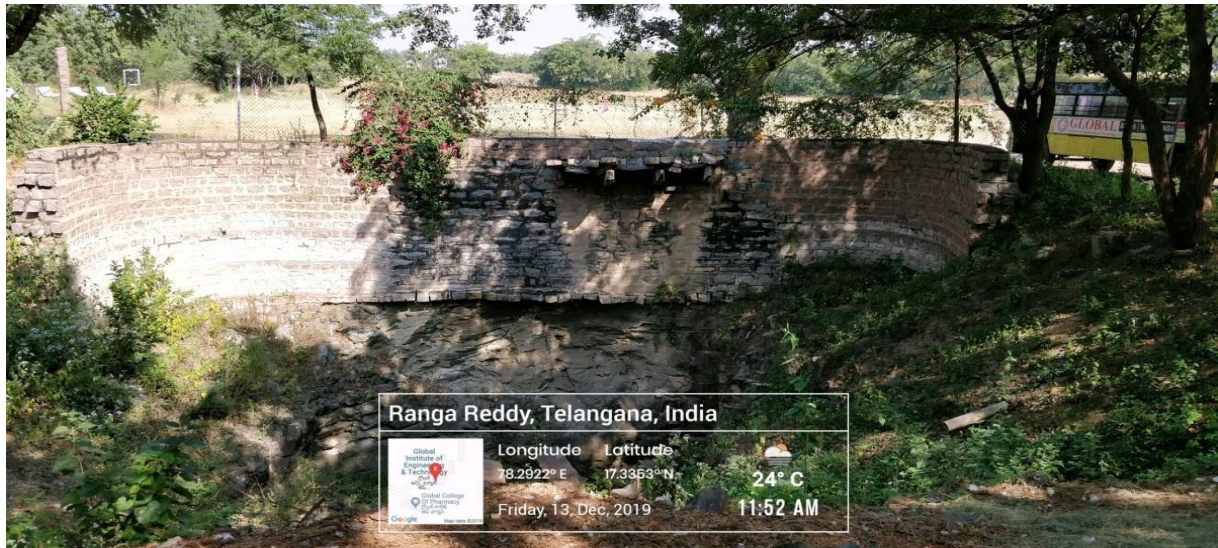
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**Stagnant Rain Water in the Recharged Well**



  
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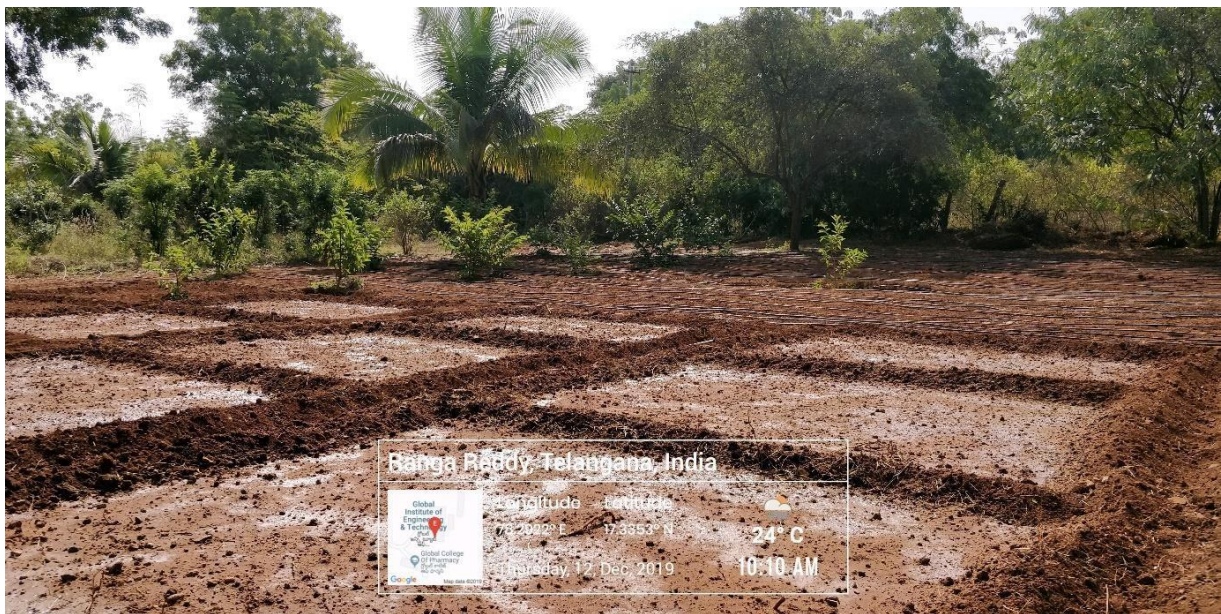
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## Water Used for Organic Farming in GIET Campus



  
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## DRIP Organic Farming Using Rain Water Harvest



  
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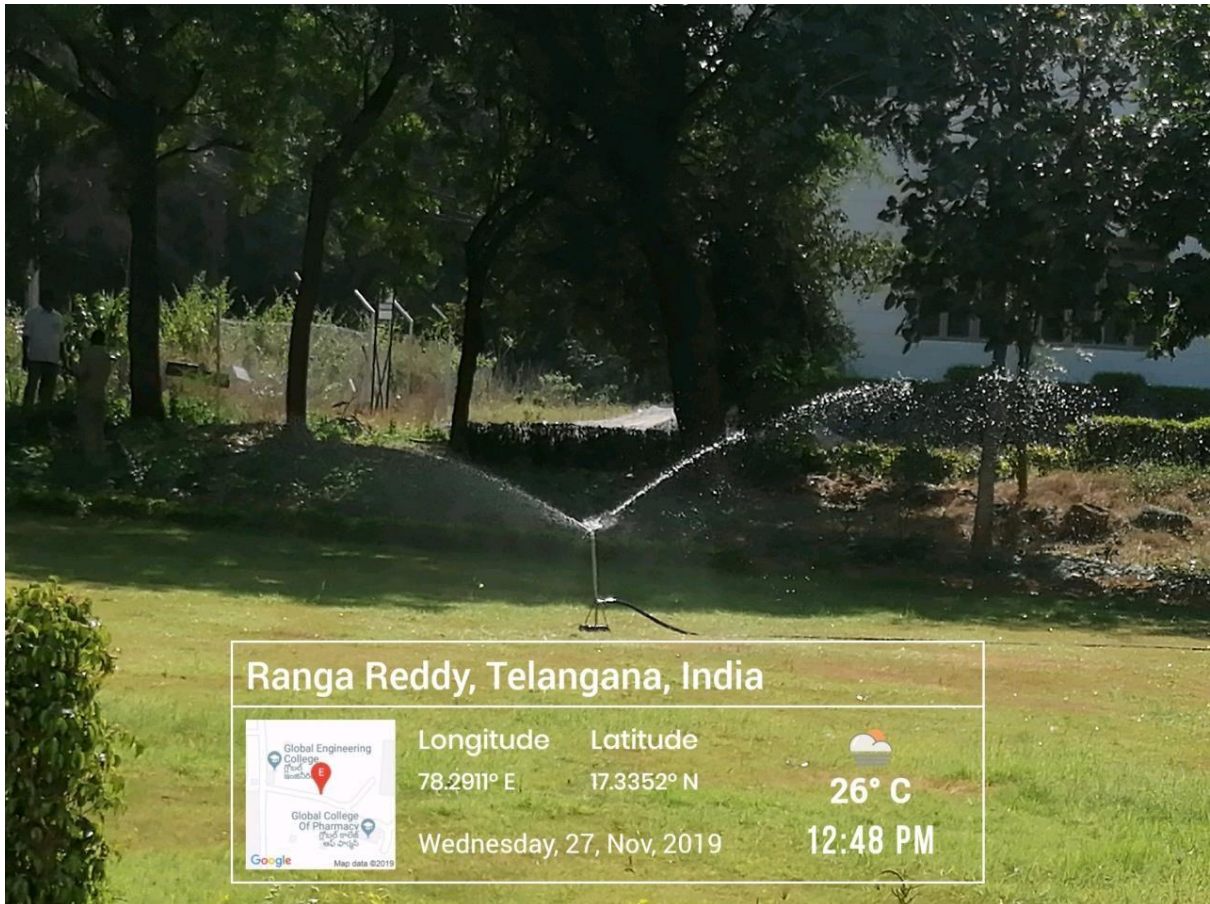
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**Water Used in Sprinklers for Landscaping**



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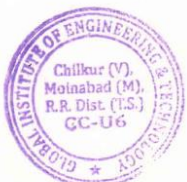
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**Sewage Treatment Plant in GIET Campus**



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## WATER CONSERVATION

**Rain water harvesting :** The Global Institute of Engineering and Technology is an awardee of “Outstanding Engineering College in Telangana 2019 for industry interface” awarded by Center for Education Growth and Research, New Delhi. It has a wide spread educational campus with a vast area of around 28 acres, in Moinabad, which is a rural area receiving a rainfall admeasuring 43.7mm/lit, according to the standards of Meteorological Department of India (MDI). The Total annual Precipitation averages 803 MM (31.6 inches) which is equivalent to 803 Litres/m<sup>2</sup> (19.7 Gallons/ft<sup>2</sup>) in Hyderabad. In our campus we have a good opportunity to harvest the rainwater.

The main motive behind this work is to charge the groundwater aquifers through reasonable structures like burrowed wells, bore wells, energize trenches and energize pits. The collection of rain water is mainly from the roof top of the Engineering Block. The channels from the rooftop are designed in such a way that the flow of water is in steady state of height and width of the channel, satisfying the water requirement with sufficient slope.



**Rain water harvesting Pit**

### **Water Collecting Pit :**

Water Collecting Pit is used to collect the water received in channel junction trap. The size of the pit is 3 x 3 feet, it is meeting at a point where a pit is made in which filtration is done where- in solid particles are separated from the water. After undergoing the filtration process, the water is released through the same channels which are connected with rain water harvesting pit in the end.

**Rain water harvesting pit:** Rain water harvesting pit is used to charge the groundwater aquifers through reasonable structures like burrowed wells, bore wells, energize trenches and energize pits. The collected rain water is being utilized for DRIP FARMING and SPRINKLER LAND SCAPING in college. It can also be used in future as well.



**DRIP Organic Farming Using Rain Water Harvest**



**Water Used in Sprinklers for Landscaping**



**Collected rain water is being utilized for drip farming and sprinkler landscaping**

**Catchment area:**

As we have a large rooftop area it acts as a catchment point. The engineering block thus is an ideal catchment unit for rain water harvesting.



**Roof Top Catchment Area**

**Bore well/Open Well Recharge** :An open well located in the campus is recharged by rain water..The collected Rain water is being utilized for DRIP FARMING AND SPRINKLER LAND SCAPING in college. It can also be used in future as well.