



GEO-TAGGED PHOTOS OF WASTE MANAGEMENT FACILITIES – AQAR 2020-21	
Criterion 7 - Institutional Values and Best Practices	
Key Indicator (KIs)	7.1 Institutional Values and Social Responsibilities
Metric 7.1.4	7.1.4 Water conservation facilities available in the Institution:
Geo-tagged Photos of Water Conservation facilities	

7.1.4 Water Conservation facilities available in the Institute.

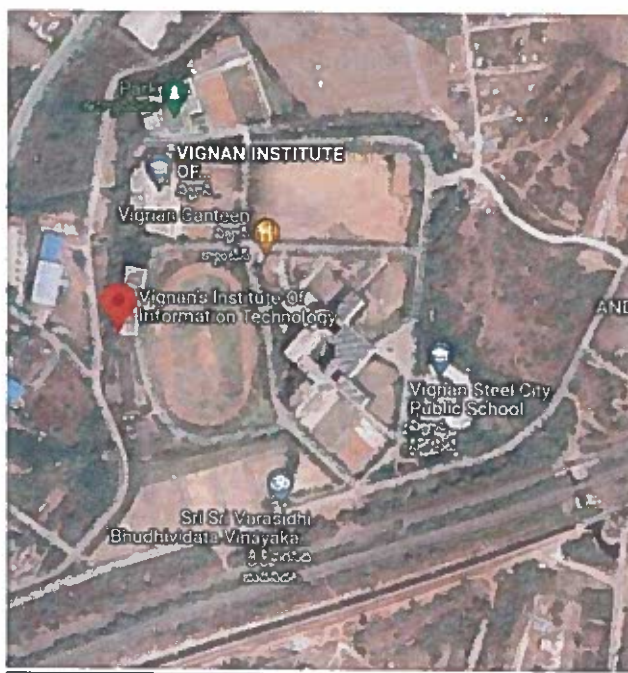


Figure: 1- Geo-map of the Institute

1. Rain Water Harvesting:

The institute is located at 17.7106° N, 83.1638° E in Duvvada region, Visakhapatnam City. It receives an average rainfall of 955mm per year. Although the soil permeability is high and majority of rainwater seeps into the ground, during heavy rainfalls the runoff rate is more. All such surface runoff is diverted into rainwater harvesting pits located in the campus and thereby promoting groundwater recharge.

Pit type	No's	Location	Source of Runoff
Circular Pit	1	Near CSE block	Engineering Block's rooftop water, Football ground's surface runoff, Adjacent asphalt road's surface runoff etc.

Square Pit	1	Near Pharmacy block	BS & H block's, Pharma block's rooftop water, adjacent asphalt road's surface runoff etc.
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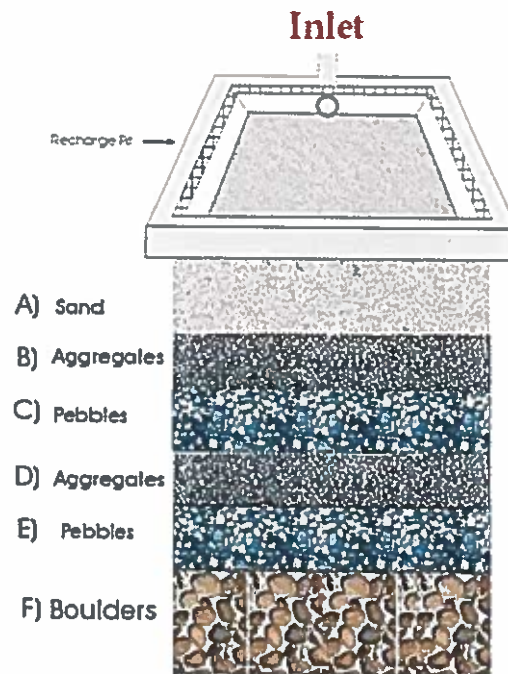


Figure: 2- Layout of Rainwater harvesting pit.



Figure: 3(a)- Geo-Tagged image of Rainwater harvesting pit

1.

2.

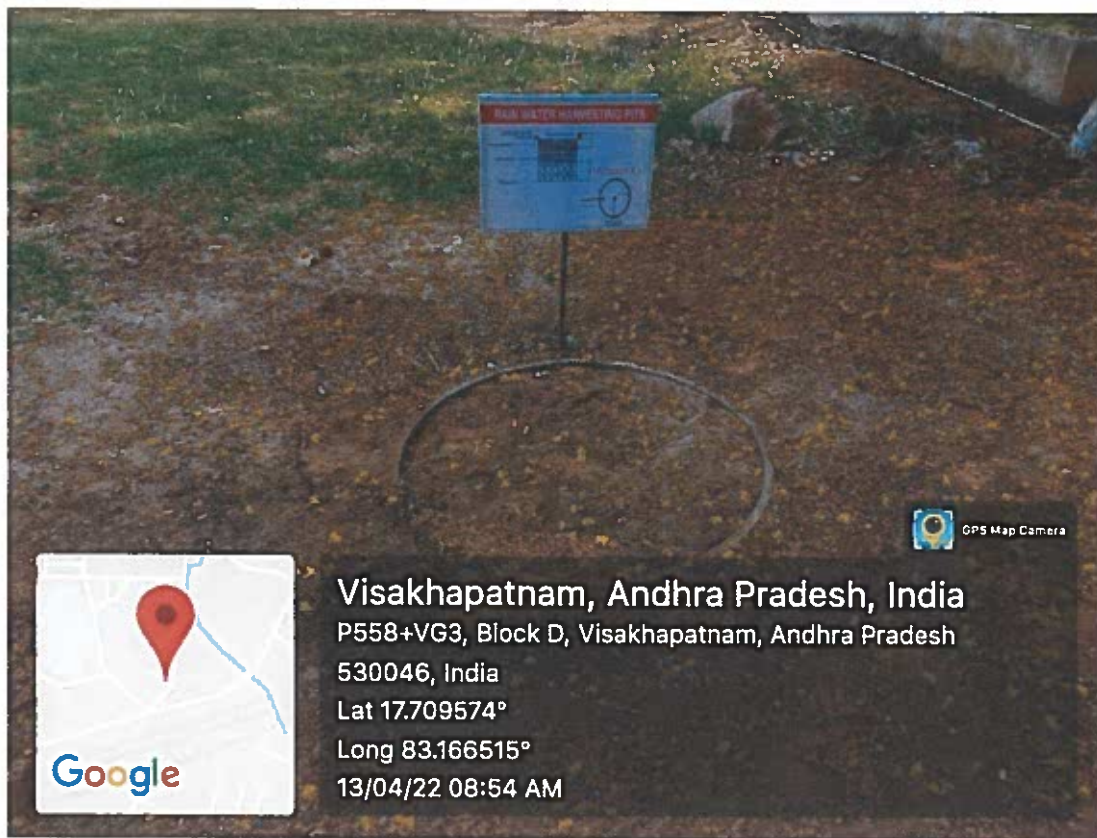


Figure: 3(b)- Geo-Tagged image of Rainwater harvesting pit 2.

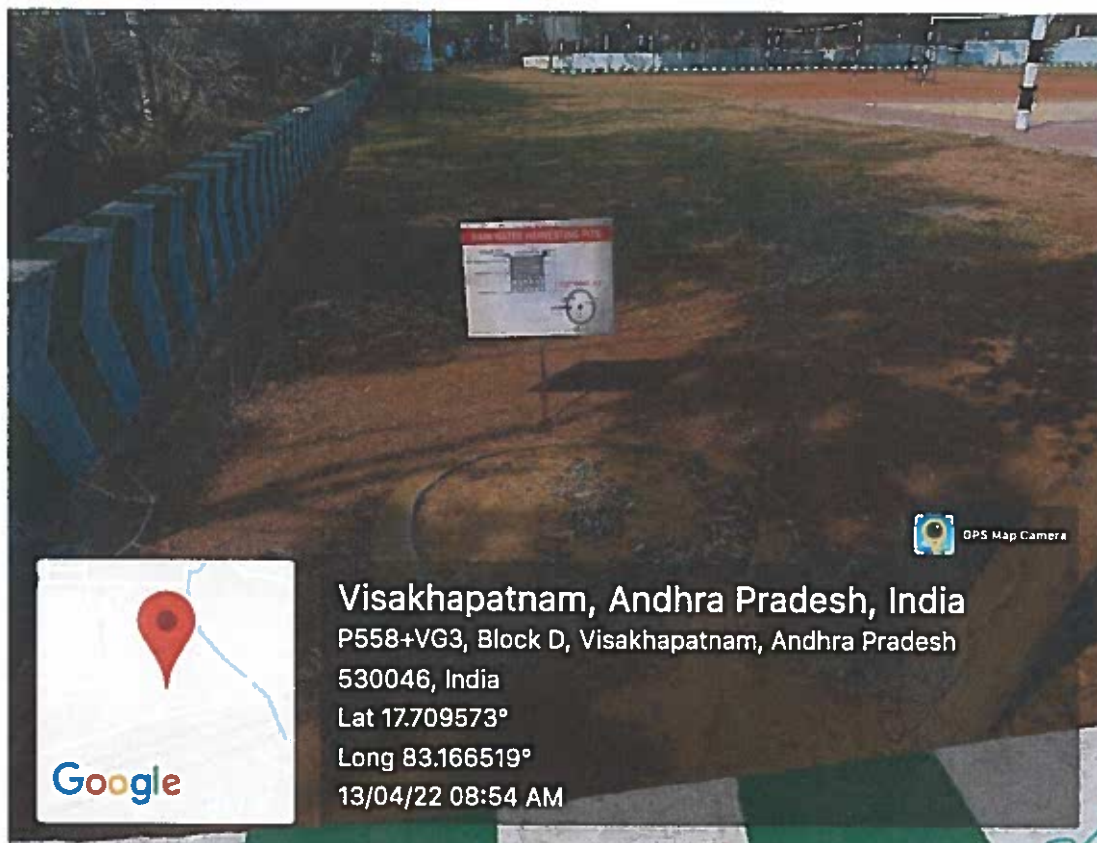


Figure: 3(c)- Geo-Tagged image of Rainwater harvesting pit 3

2. Bore-well/ Open-well recharge:

The institute has installed both Bore-well and open-well recharge pits. As around 55% of the campus is either barren land or garden area the requirement of water for gardening is high and thereby many bore wells are installed at multiple depths. All these bore-wells are recharged using open-well pits dug near the Civil Engineering block.



Figure: 4- Geo-tagged image of Open-well recharge pit.

3. Construction of tanks & bunds:

Each building in the institute is having overhead tanks for the purpose of storing pumped water and reuse for various purposes. Also as a part of storing some rainwater an open tank is built near the Civil engineering block. This tank is a multipurpose one as the water stored here is used for gardening, cleaning etc. It is also equipped with a pumping motor which is used during non-rainy seasons for refilling the tank.

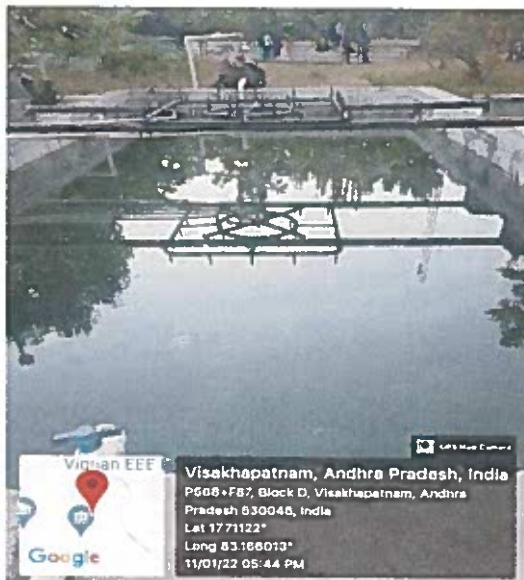


Figure: 5- Geo-tagged image of open tank



Figure: 6- Geo-Tagged image of overhead tanks.

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4. RO Plant:

The institute maintains a water treatment plant where the stored water is treated and supplied to all the buildings as freshwater for drinking.

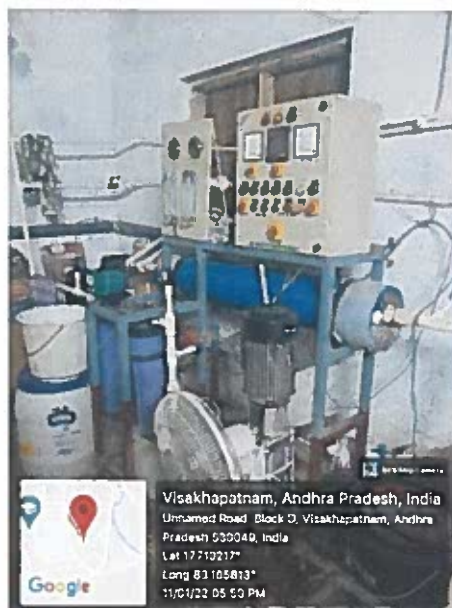


Figure: 7- Water treatment plant at VIIT campus.

5. Maintenance of Water bodies & water distribution system:

A well laid pipe network is being used for proper distribution of stored water from the tanks to places like restrooms, sinks, taps for gardening, washing the vehicles etc., in the campus.

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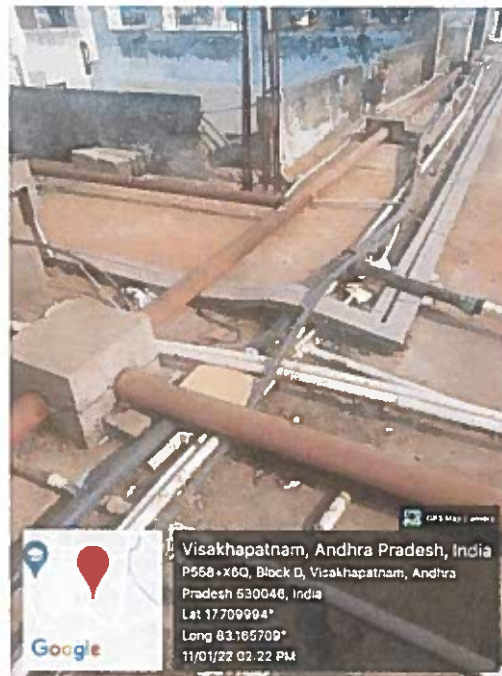


Figure: 8- Water distribution system.

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