

Vidya Jyothi Institute of Technology

(Approved by AICTE, New Delhi & Permanently Affiliated to JNTU(H))

Aziz nagar Gate, C.B. Post, Hyderabad-500 075

7.1.4 Rain Water Harvesting & Borewell Recharge

- To ensure the conservation of rainwater as well as to preserve the ground water availability, Rain water harvesting and Borewell recharge technique has been implemented effectively in Vidya Jyothi Institute of Technology, Hyderabad.
- More specifically, rain water harvesting has been adopted to collect the overflowed water from the roof as well as the surface runoff. All the buildings are properly surveyed to get the clear area available on it. Several rainwater harvesting pits are constructed in and around the campus.
- All open terraces are fitted with collection pipes to route rain water and sent to the ground through designed drains. The runoff from roof top is collected through down take conduits of 100mm dia. Drain connected from all the building flow towards lower level through external drain. The rain water is diverted through wide shallow channels spread over the entire campus, thus ensuring the conservation of rainwater.
- Further, to sustain the ground water availability, the institution has adopted borewell recharge system.
- To increase infiltration of rain water in the sub-soil which has decreased drastically and improvement in the ground water quality by dilution, and also to improve the ecology of the area by increasing the vegetation cover, etc.
- The harvested rain water may contain some toxic substances which may affect our health. To ensure good quality, the collected rain water passes through suitable types of filtering media (Boulder = 2ft, 65 mm size CA = 2ft, 40mm size CA = 2ft, 20mm size CA = 1.6ft and river sand = 1.6ft) before getting stored in storage tank.
- It should be noted that institute ensures that the water wastage is minimized through regular check and corrective measures taken on leaky taps and pipes overflow from overhead tanks etc. Then, the water collected from roof top after filtration can be used directly for lawn watering, washing etc.



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Rain water harvesting and Borewell Recharge Pits

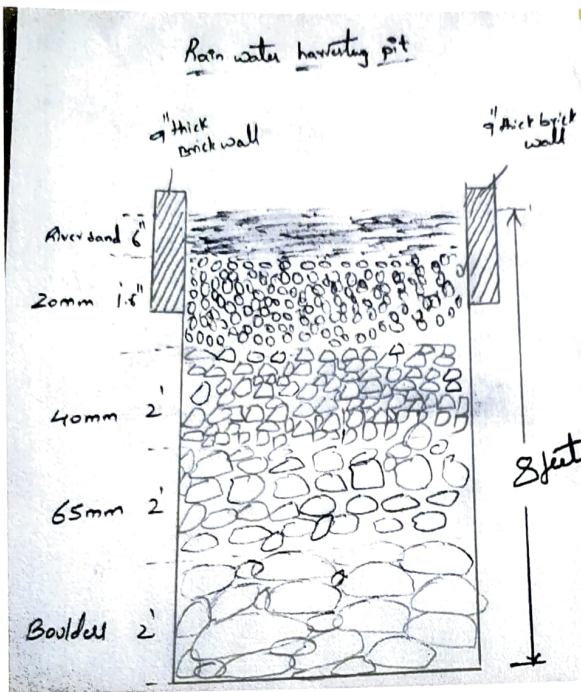


Vertical dimensions of filtering media of Surface Rain water (Surface runoff) Harvesting Pit



Surface Rain Water (Surface runoff) Harvesting Pit of Size 10ft X 10ft X 8ft in VJIT, Hyderabad Campus

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Vertical dimensions filtering media of **Roof top Rain water Harvesting Pit**



Roof top Rain Water Harvesting Pit of Size **10ft X 10ft X 8ft** in VJIT, Hyderabad Campus

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Borewell Recharge Pit in VJIT, Hyderabad Campus

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