



## Koneru Lakshmaiah Education Foundation

(Category -1, Deemed to be University estd. u/s. 3 of the UGC Act, 1956)

Accredited by NAAC as 'A++' ♦ Approved by AICTE ♦ ISO 21001:2018 Certified

**Campus:** Green Fields, Vaddeswaram - 522 302, Guntur District, Andhra Pradesh, INDIA.

Phone No. +91 8645 - 350 200; [www.klef.ac.in](http://www.klef.ac.in); [www.klef.edu.in](http://www.klef.edu.in); [www.kluniversity.in](http://www.kluniversity.in)

**Admin Off:** 29-36-38, Museum Road, Governorpet, Vijayawada - 520 002. Ph: +91 - 866 - 3500122, 2576129

### Water conservation facilities available in the Institution

#### Wastewater Recycling: (Description and Geo-Tagged Photos)

- KLEF has an established potential of 2180 KLD wastewater recycling capacity as of date.
- The wastewater generated on the campus was treated in the sewage treatment plants of 5 No's STP with a handling capacity of 2180 KLD.
- Three sewage treatment plants (STPs) utilize MBBR (Moving Bed Biofilm Reactor) Technology, while two STPs employ ARBiT (Advanced Technology-based Design) technology.
- The sludge settled in the STPs is removed once a month and composted. The compost is used as manure for the gardens. Thus, the entire wastewater generated on the campus is well-treated and effectively used for gardening and dual flushing purposes.
- 40% of the total water demand of the campus is being met by treated water from STP, thus reducing the dependency on the fresh groundwater source.

STP-1, Near Main Canteen, MBBR Technology, 300 KLD capacity

STP-2, Near KGH Girls' Hostel, MBBR Technology, 300 KLD capacity

STP-3, Near Nilagiri Girls Hostel, MBBR technology, 30 KLD capacity

STP-4, Near Himalaya Boys Hostel, ARBiT Technology, 350 KLD capacity

STP-5, Near Tulip Residency, ARBiT Technology, 1200 KLD capacity

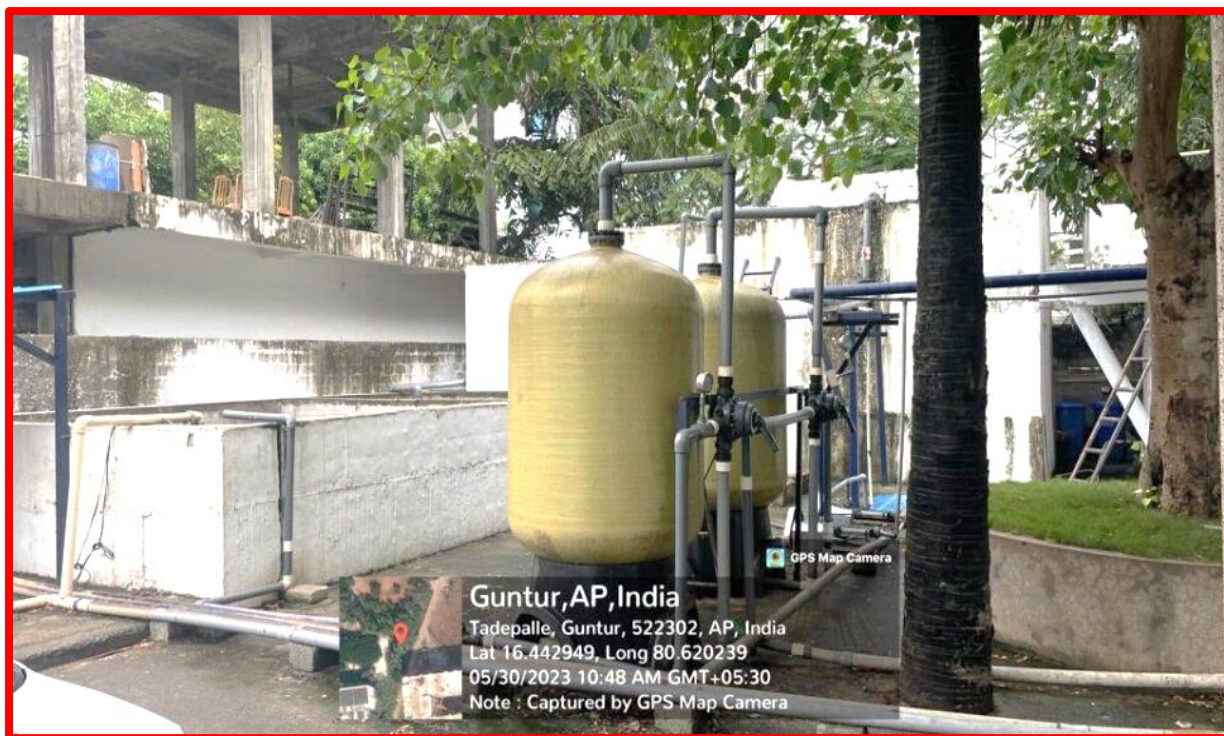


**STP-1, Near Main Canteen, MBBR Technology, 300 KLD capacity**

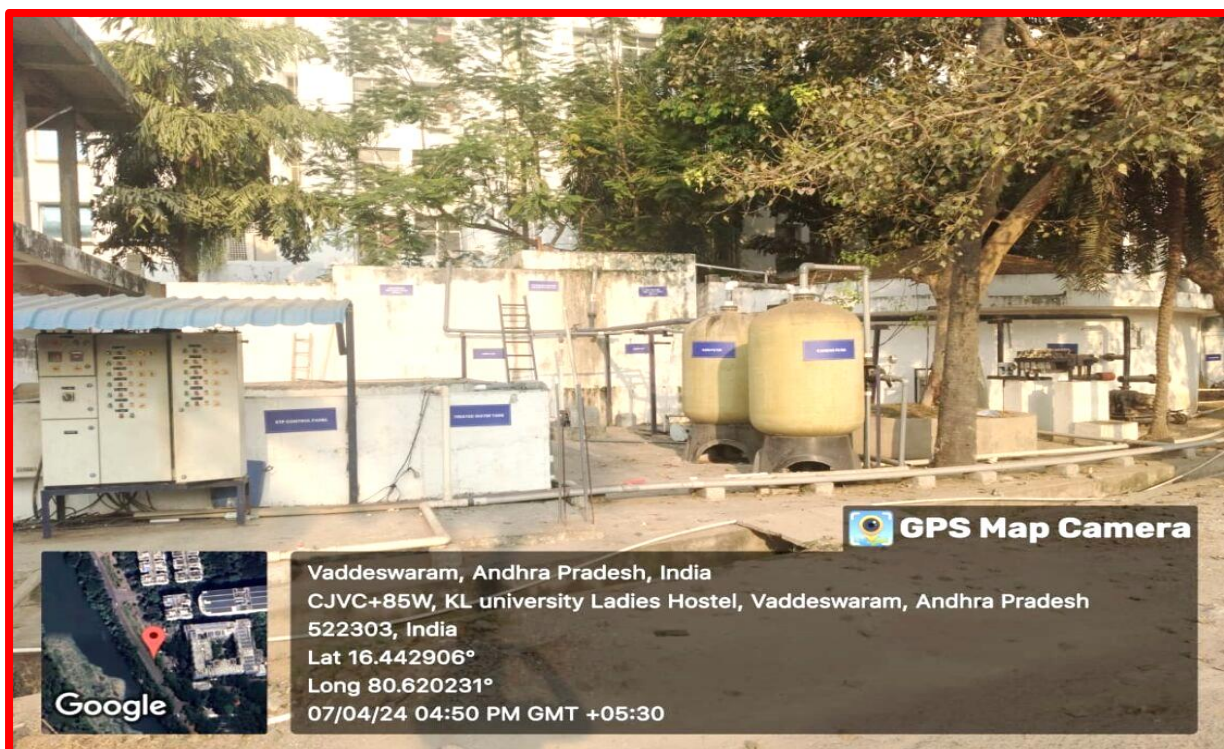


**Collection Tank of STP-1, Near Main Canteen Labs**





**STP-2, Near KGH Girls' Hostel, MBBR Technology, 300 KLD capacity**



**Front View of STP-2, Near KGH Girls' Hostel**





**STP-3, Near Nilagiri Girls Hostel, MBBR technology, 30 KLD capacity**



**Carbon filters of STP-3, Near Nilagiri Girls Hostel**





**STP-4, Near Himalaya Boys Hostel, ARBiT Technology, 350 KLD capacity**

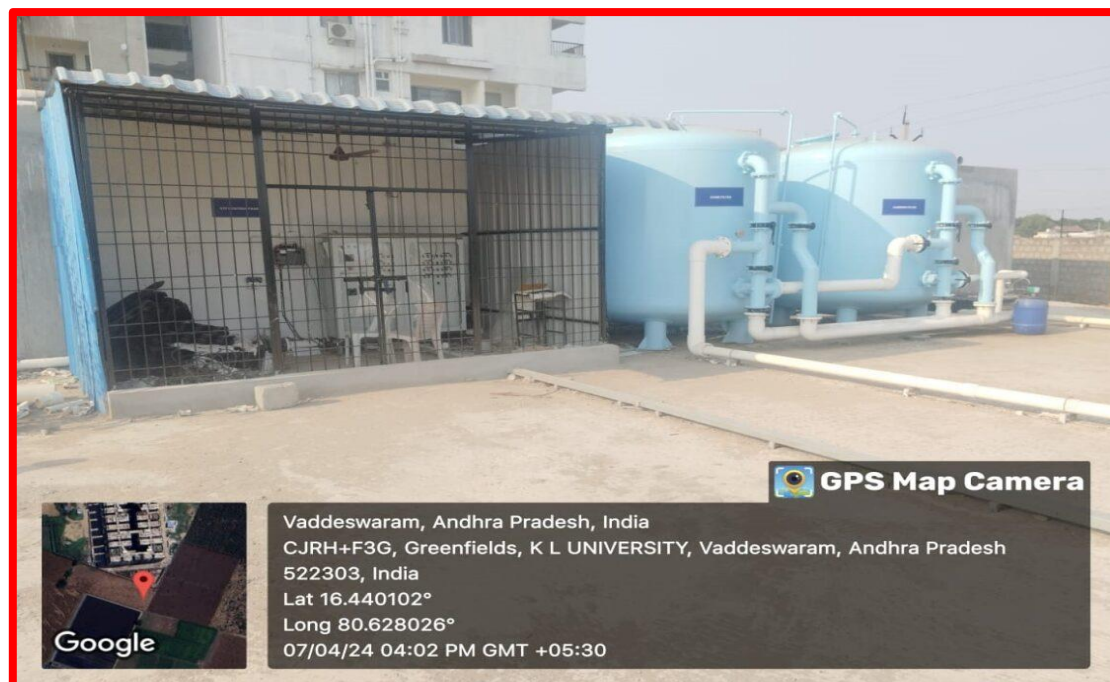


**Front View of STP-4, Near Himalaya Boys Hostel**





**STP-5, Near Tulip Residency, ARBiT Technology, 1200 KLD capacity**



**STP-5, Near Tulip Residency**

## Utilization of STP recycled water for dual plumbing system and flushes



**Dual Plumbing System**



**Utilization of STP recycled water for Dual flush**



## Utilization of STP recycled water for gardening



## STP recycled water for gardening



## STP recycled water for gardening

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