

Aquatron-based STP Case Study

Sacred Grove Ashram



Site data

Location: Chowdepalle, AP
Capacity: 30 KLD
Installation type: New project
Year of completion: 2022



Aim

To provide a natural low-maintenance sewage treatment system that can also handle load fluctuations



Project objectives

- Decentralized solid-separation and natural composting units for WC water from 13 cottages
- Decentralized sub-surface irrigation beds for grey water
- Centralized reed-bed treatment for separated WC water



Low-cost O&M

- No operator
- Marginal power consumption
- Replacement of reed-bed media every 10 years.



Water quality

- Grey water is automatically treated and consumed by plants in subsurface irrigation system
- Reed-bed treatment yields PCB standard treated water

Placement of Aquatron units



About sub-surface irrigation

- Natural method of treating wastewater
- Trench filled with media and planted with water-loving plants.
- Takes care of filtration and supports micro-organisms that consume pollutants.

