



KALASALINGAM

ACADEMY OF RESEARCH AND EDUCATION

(DEEMED TO BE UNIVERSITY)



Under sec. 3 of UGC Act 1956. Accredited by NAAC with "A++" Grade

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Ensure availability and sustainable management of water and sanitation for all

THE - Impact Rankings 2025

6.3.1 Wastewater treatment

Sewage Treatment Plant

Kalasalingam Academy of Research and Education supports clean water sanitation (SDG 6) and spends a whopping sum of money for wastewater recycling. Two hi-tech sewage treatment plants with the capacity of 800 kld are functioning on the campus to recycle the used water from various hostels, main blocks and canteens. The recycled water is used to maintain the green ambience of the campus and also to irrigate the coconut grove. The sewage treatment plant confirms to Pollution Control Board norms and enormously helps to protect the environment.

The wastewater generated from the campus has shown to be a potential resource for cultivating activated sludge microbes to convert the chemical energy (as pollutants) to valuable biomass. The produced biomass from the wastewater could be used as organic compost for the growth of various crops and flowering plants on the campus. Approximately 6000 inhabitants reside in the campus and generate around 8 to 9 lakh litres of wastewater per day. The wastewater is treated using advanced sequential batch bioreactor, followed by tertiary treatment using dual sand, activated carbon filtration and UV – Chlorine disinfection. The treated water is recycled using a dual piping system to flush urinals and for gardening purposes. This reduces the demand on ground water and creates an avenue for the production of valuable biomass. The dried biomass is a good source of organic and inorganic nutrients to raise crops and flowering plants. The green engineering adopted in the campus could serve as an example for other communities and institutes to optimize their water needs and flourish green surroundings in vicinity to meet the sustainable development goals.

The Sewage Treatment Plant has a capacity to process 5 lakh litres a day. They operate 24x7 and the treated water is used for watering to the gardens throughout the campus. Recycled water is periodically tested for ppm and composition, and it is ensured within permissible limits to ensure it is hygienic. Cleaning of collection tanks is done every six months. The STPs are operated by a team of Operators who ensure the safety measures.



Overview of Sewage Treatment Plant



Aeration Tank Facility in the STP at Kalasalingam Academy of Research and Education, TN



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HMCP+M6, Krishnan Kovil, Tamil Nadu 626138, India
Lat 9.572039°
Long 77.685644°
13/09/24 02:31 PM GMT +05:30

Adsorption Column (Rapid Sand Filter and Activated Charcoal Filter) Facility in the STP at Kalasalingam Academy of Research and Education.



Air Blower Pumps Facility in the STP at Kalasalingam Academy of Research and Education



Sediment left over after the sedimentation of sewage water.



Waste Water Treatment and Clear water Storage facility in Kalasalingam Academy of Research and Education

Water Policy:

<https://kalasalingam.ac.in/wp-content/uploads/2021/11/Water-Conservation-Policy.pdf>