



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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THE - Impact Rankings 2025

12.3.1 Waste Tracking

The Institution has established a system for the management of various wastes produced in the campus, to provide a clean environment through the concept of (3R) Reduce, Recycle, Reuse which in turn creates wealth and also supports wellbeing of students, faculty and staff and to enhance the quality of life within the campus. All necessary facilities for the management of wastes are also in place. The wastes generated such as paper, cardboard, computers, electronic equipment, glass batteries, wood, concrete, agriculture and food wastes. Wherever reuse is possible, the university is committed to recycling those materials by different methods of waste tracking process.

II. Liquid Waste Management:

Liquid wastes generated in the campus are treated by two Sewage Treatment Plants with a total capacity of 800 KL per day. KARE have separate sustainable environmental policy that deal with wastewater management towards our sustainability models for reducing and reusing water at our campuses.

III. Biomedical Waste Management:

Biomedical waste that are generated within the campus are subjected to sterilization using an autoclave and disposed of as a landfill through an MoU signed with a designated agency.

IV. E-waste Management:

The HEI has a plan to reduce generation of E-waste. Computers, servers, projectors and other electronic equipment are maintained properly to maximize their life. Toners are also reused. The computers are also donated to nearby rural communities and schools. The e-waste generated are collected and handed over to the certified vendor.

VI. Hazardous Chemicals and Radioactive Waste Management:

The HEI does not use radioactive materials and hence there is no radioactive waste generated. **Chemical wastes** generated in the laboratories are neutralized, diluted and used for the cultivation of azolla. The harvested azolla is used as a biofertilizer. An MoU is also signed with a designated agency for the disposal of chemical wastes.

Organic Waste Collection Unit





Inorganic Waste Collection Unit

We are collecting a volume of inorganic waste including plastics, metals in separate dustbins. In-organic wastes Low density polyethylene (LDPE) and Low linear density polyethylene (LLDPE) electronic waste, condemned equipment are not allowed to burn in the open environment as per KARE recycling policy. The collected waste is handed over to local recycler vendors.



LATITUDE	9° 34' 21.96" N
LONGITUDE	77° 40' 38.68" E



LATITUDE	9° 34' 17.95" N
LONGITUDE	77° 40' 34.01" E



LATITUDE	9° 34' 17.93" N
LONGITUDE	77° 40' 33.87" E

Organic Waste collected and treated at KARE Campus

E-Waste Collection Unit

A 3 R Policy (Reduce, Reuse and Recycle) for the management of waste including E-waste. KARE has a plan to reduce generation of E-waste. E-waste – E-waste that is generated such as computers, monitors and electronic gadgets are collected from various divisions of the campus and stored at a center place and disposed through authorized agencies. Computers, servers, projectors and other electronic equipment are maintained properly to maximize their life. Toners are also reused. The e-waste generated are collected and stored in rooms before handed over to the certified vendor. Computer, server, Projector and other electronic equipment are subjected to maximum utilization by having regular maintenance, preventive maintenance, and other checkups. Toners are reused. The used electronic equipments also disposed through vendors

including the n-buy back mechanism. The e-waste generated is collected and handed over to the certified vendors. MoU was signed with Green era recyclers for the proper disposal of regular e-waste. Green era recyclers is an authorized dismantling and disposal of E-waste by TamilNadu Pollution Control Board.





Biomedical Waste Collection

Biomedical waste is being generated by the health center present in the KMCH campus and the Department of Biotechnology that uses animals for their research. The bacterial cultures are autoclaved and disposed of. The solid biomedical wastes such as blood-stained cotton, animal carcasses generated within the campus are subjected to sterilization using an autoclave that kills harmful pathogens and disposed through an MoU signed with a designated agency.

The laboratory produces biomedical wastes that include tissue, blood soiled cotton and microorganisms and cultured cells. The waste generated in the Biotechnology and biomedical department such as microbial cultures and cultured cells are disinfected through autoclaving and disposed. Soiled surgical equipment such as scissors and knife are disinfected, autoclaved, washed and replaced.

Autoclave Room-(7010): Biomedical Waste Management



Autoclave: Biomedical Waste Management

LATITUDE	9° 34' 26.92" N
LONGITUDE	77° 40' 27.62" E

E-waste Management

The HEI adopts a 3R policy (Reduce, Reuse and Recycle) for the management of waste including E-waste. Computers, servers, projectors and other electronic equipment are subjected to maximum utilization by having regular maintenance, preventive maintenance and other check-ups. Toners are reused. The computers are also donated to nearby rural communities and schools. The used electronic equipment is also disposed through vendors including a buy-back mechanism. The e-waste generated are collected and handed over to the certified vendor.

E-waste Storage Room:

As per Rule 15 (9) of the E-Waste (Management) Amendment Rules, 2024 we are following the guidelines laid down by the central pollution control board. To prevent its accidental breakage of collected E-waste, it must be kept in an isolated area after becoming nonfunctional / un-repairable. The following images are taken from the collected E-waste storage room.

Policies Available in University Website

Recycle Policy:

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

Solid Waste Policy:

https://drive.google.com/file/d/1rKQ73lDJlwqlyT0j0vw7SCTr5FN49UDP/view?usp=drive_link

Liquid Waste Policy:

https://drive.google.com/file/d/1rKQ73lDJlwqlyT0j0vw7SCTr5FN49UDP/view?usp=drive_link

E-Waste Management-

https://kalasalingam.ac.in/wp-content/uploads/2021/11/e-waste_policy.pdf