



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

6.2.1 Water Consumption per Person:

Safe and adequate drinking water for domestic and personal use of each person is important. As per UN Policy 50 to 100 liters of water per day are needed. Our university located in rural area 9.5747° N, 77.6798° E depends fully depends upon groundwater system only. Hence efficient usage of available water. We are following a water conservation policy in our campus. The daily requirement of water in our campus is approximately **135** litres per person/day. A centralized irrigation monitoring system throughout the campus to improve water use efficiency in the campus.

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

Types of water conservation system and their location in KARE campus

S. No.	Type of harvesting	Location
1	Recharging Dug Wells (RDW)	Near the Controller of Examinations Block (48 lakh Litres capacity)
2	Recharging Percolation Ponds (RPP)	Near Temple (2.5 Lakh Litres Capacity)
		Backside of Men's Hostel - II / Bhagat Singh Hostel (4 Lakh Litres Capacity)
		Babbage Block / Academic Block-VI (50 Lakh Litres capacity)
		Men's Hostel - III / Dr. Radhakrishnan hostel (60 Lakh Litres Capacity)

3	Recharging Borewells (RBW)	Men's Hostel - II / Bhagat Singh Hostel
		Near Temple
		South of PT Academic Block
4	Recharging Trenches (RT)	Near Manimandapam
		Near Academic Block-XI
5	Recharging Pit (RP)	Near Dr. K. S. Krishnan Auditorium
6	Sump	Backside of Chemistry Laboratory (Block 2)
		Backside of ECE Department (Block 3)
		Near Mess Hall (MH-III)
		Near Mess Hall (MH-II)
		Near entrance (MH-IV)
		Near entrance (LH-I)
		Near entrance (LH-II)
		Near entrance (LH-III)

KARE campus maintains separate canals for sewage water, rainwater and drinking water so there is no possibility of mixing polluted water with drinking water in our campus.



Location of Dam for water absorption and storage within the KARE campus



Recharge Trenches near Manimandapam



Recharging Percolation Ponds Location at Babbage Block / Academic Block-VI



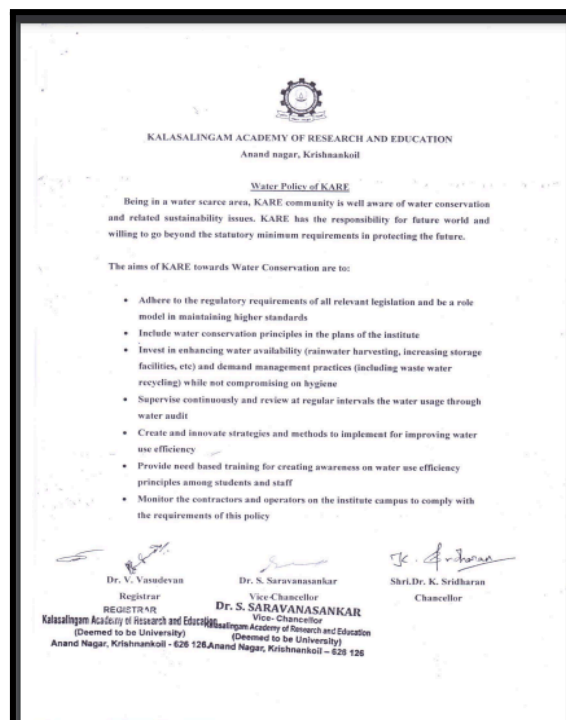
Recharging Percolation Ponds Backside of Mens Hostel - II / Bhagat Singh Hostel



Figure:1 Separate canals for the Rainwater collection and Transportation



Figure:2 Dual Pipeline system used for treated water



Theoretical Calculations for drinking and domestic use

Table 1: Standards for drinking and domestic use

Sl. No	Type of Building	Domestic liters per head/day	Flushing liters per head/day	Total Consumption liters per head/day
1.	Schools/Educational institutions:			
	a) Without boarding facilities	25	20	45
	b) With boarding facilities	90	45	135

(Source: National Building Code 2016, BIS)

Estimation of Water requirements for Drinking and Domestic use at KARE Campus

Domestic Use:

Average daily population residing in the campus = 8900 (Hostels – students and staff)

Average total consumption = **135 litres per person/day.**