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Ensure availability and sustainable management of water and sanitation for all

THE - Impact Rankings 2025

6.5.4 Cooperation of water security

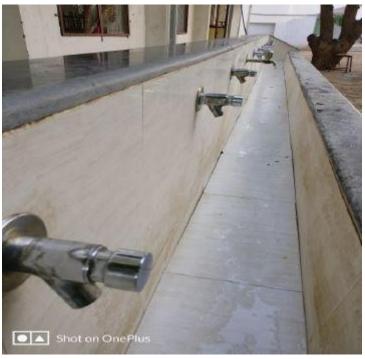
CLEAN WATER AND SANITATION

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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.



Save Water Slogans in common bathrooms



Aeration Tapes are used for reduced water usage



Figure:1 Separate canals for the rainwater collection



Figure:2 Dual Pipeline system used for treated water

The sewage water is taken to the sewage treatment for recycling and treated water is utilized using the dual pipeline system for irrigating the garden and flushing of toilets.

A new hi-tech Sewage Treatment Plant with a treatment capacity of 8 lakh liters per day has been installed in the campus to treat and recycle the wastewater generated from the hostels, academic blocks and staff quarters in the campus. Tertiary treatment of sewage water is carried out using rapid sand filters, activated charcoal, UV and Chlorine disinfection. The plant uses the advanced Sequential Batch Reactor technology against conventional Activated Sludge Process for efficient treatment confirming to the norms of regulatory bodies. KARE has a sewage Treatment Plant with a capacity of treating at least 500 kilo liters of wastewater each day, and an advanced UV disinfection technology. Using a dual pipeline system, the treated water is used for flushing urinals and in sprinklers to flourish the green cover of the campus and irrigate vegetation like coconut groves.



Figure:3 Sewage Treatment Plant 1 – (300 Kiloliter per day)



Figure:4 Sewage Treatment Plant 2 – (500 Kiloliter per day)



Figure:5 Tertiary treatment of sewage water using rapid sand filter, activated charcoal, UV and Chlorine disinfection

Water Analysis

KARE has analyzed the water quality parameters and it is compared with BIS standards. The following table shows the quality of drinking water and it proves that it is pure, safe and clean.

Drinking water quality in KARE Campus:

No.	Parameters	KARE Value	BIS Standards
1	pH	7.6	6.5-8.5
2	Turbidity	NIL	1 NTU
3	Conductivity (µ mhos)	90.4	<250
4	Hardness (ppm)	40.71	200

5	Total Dissolved Solids (ppm)	58.5	500
6	Chloride (ppm)	32.07	<250
7	Salinity (ppm)	74.3	<500
8	Nitrates (ppm)	-	45
9	Sulphates (ppm)	6.85	200
10	Phospate (ppm)	0.01	1.5
11	Fecal Coliform counts/ml	-	-

From this water analysis, it is inferred that the drinking water is pure and potable without any pollutants.

The university provides safe and purified drinking water to the teaching and non-teaching faculty, students and visitors.

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				09.07.2024
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		<u>a</u>		
Name of	f the sample	KARE	Sewage Plant	
Date of t	the sample take	n : 09.07.2	024	
	The second second			
Analyze	d Date	: 09.07.20	124	
		Observ	ed Values	
SI. No	Parameters	Inlet	Outlet 500 KLD	Agriculture Irrigation Standard
L.	pH	10.5	8.1 /	6.5 - 8.5
2.	TDS	1250 ppm	867 ppm-	< 1000 ppm
3.	Turbidity	10 NTU	3 NTU/	< 5 NTU
	HoD / Chemist	17/2024	Normal of Care	Dean / SAS

BOA No. 226 /AEL_MDU/2022-23, Dated: 01.03.2023 Name and address of the sender The District Environmental Engineer 1. Tamil Nadu Pollution Control Board 2. Dated and Time of collection 01.02.2023, 3.50 pm, 04.00 pm 3. Date and Time of collection 01.02.2023, 3.50 pm, 04.00 pm 3. Date and Time of collection 01.02.2023, 03.15 pm 4. Condition of Seal, Fastening Unsealed, Unfintened 5. Nature and Number of Samples 2 Numbers of Sewage 6. Date of Analysis 02.02.2023 DEE Code No. Lab code No. 02-01 1653 STIP Inlet Untreated/Tre
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5. COD IS 3025 (Part58) 2006 mpl. 1008 32
APHA 23 st Edi 2017, Part No. 4500- Norg B mg/L 1190 978 8. Total Solids NHA 23 st Edi 2017, NHI BLC, NO, NO, mg/L 1190 978
7. Ammoniacal Nitrogen APHA.23 rd Edt.2017, Part No. 4500- NH3 B,C mg/L 20.16 1.12
Total Kjeldahl Nitrogen APHA 23 st Edt 2017, Part No. 4500- Norg B mg/L 44.8 3.92
P. Total Coliferm APHA 23 ^{tr} Edt 2017, Part No. 9221-8 MPN 100ml 33 x 10 ³ 32
10. Fecal Coliform APHA 23 st Edit 2017, Part No. 9221-E MPNv 100ml 14 x 10 ³ 17.

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Icpa	t No. NALCO 123000043602				Date 27/10/2023
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		Krishnskoil, Srivillipattar	(Te), Vinathunagar	(Dt). Tamilaada-6261	26.
Sampl	e Described by the Customer*	ETP PLANT TREATED WA	3 (C)	2768	
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	sted By* nation about Sampling	t Mr. P.Masi			
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Date o	of lical Starting	: 20/10/2028			
	of heat Completed	1 27/10/2028			a Street of
S.Ne	PARAMETERS	TEST PROTOCOL	UNIT	TEST RESULTS	PC# NORMS
1	pH谷 25*C	15 3025(P-11)-2022		6.83	5.5-9.0
2	Total Dissolved Solids	13 3025(P-16)-1984	mgji	869.0	2100.0
-3	Chemical Oxygen Demand	18 3025(7-55)-2006	mg/L	48.77	250.0
.4	BOD, 8 days @ 27°C	15 S025(P-44),1993	mg/L	9.25	30.0
5	Total Nitrogen	15 5025(P-34)-1988	mgiL	7.94	100.0
6	Ammonical Nitrogen (as N)	1\$ 3025(7-34)-1988	ngit	0.76	50.0
7	Total Hearbana as CaCOS	18 3025(P-21) 2009	ngt	421.57	-
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Policies:

 \emptyset Our institution has the following policies for conservation of water, recycling of waste water, usage of treated water and water pollution control.

1. Water Conservation Policy

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

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

Ø As per the policies, we have conducted awareness programs on water pollution control in our campus.

 \emptyset Hence in our campus policy and programs for water pollution control have been fully implemented and monitored regularly.