



# KALASALINGAM

## ACADEMY OF RESEARCH AND EDUCATION

### (DEEMED TO BE UNIVERSITY)

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



Anand Nagar, Krishnankoil, Srivilliputtur (Via), Virudhunagar (Dt) - 626126, Tamil Nadu | [info@kalasalingam.ac.in](mailto:info@kalasalingam.ac.in) | [www.kalasalingam.ac.in](http://www.kalasalingam.ac.in)

## THE - Impact Rankings 2025

6 CLEAN WATER  
AND SANITATION



Ensure availability and sustainable  
management of water and sanitation for all

### 6.3.2 Preventing water system Pollution

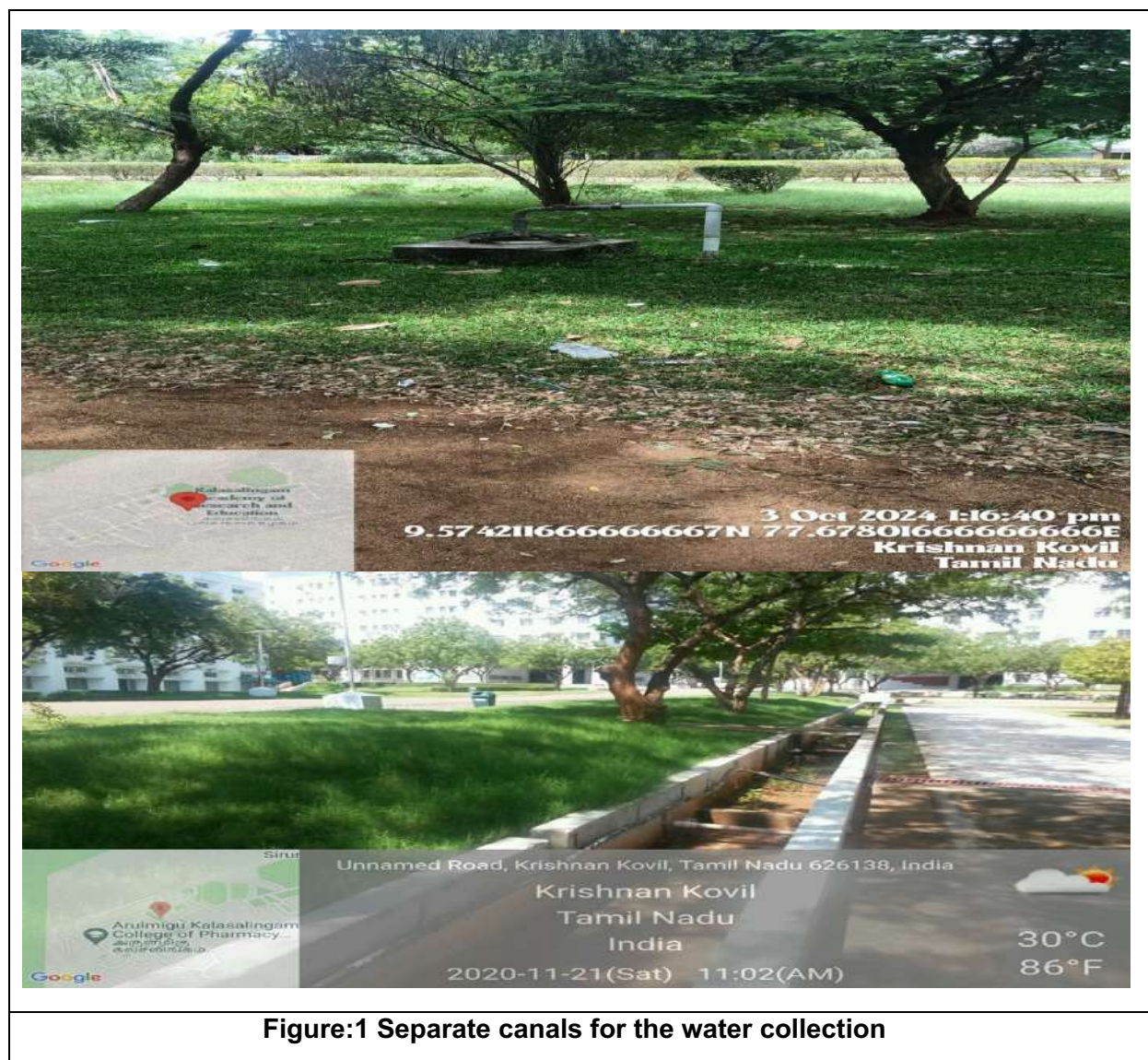


Figure:1 Separate canals for the water collection



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KARE has its own Water Conservation Policy. It is hosted in our institution policy. (<https://kalasalingam.ac.in/wpcontent/uploads/2021/11/Water-Conservation-Policy.pdf>).

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. Water Quality monitoring metrics to measure and track the prevention of water system pollution.

### **Reverse Osmosis (RO) Plant**

Hard Water is treated by RO plant. Treated water is supplied from the RO plant to the different drinking water tanks available at various locations at the campus. The plant has a capacity of 3000 litres per hour. The water sample is tested once a month and frequently tested water Quality by the Department of Chemistry.



**Figure: 2 KARE Mineral Water Plant**





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**Figure: 3 Mineral Water Plant inside KARE Campus**



**Figure: 4 Water Purification System**



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Figure: 5 Dual Pipeline system used for treated water



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**Figure: 6 Pure Drinking Water – Provided inside the campus**

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.





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Figure: 7 Sewage Treatment Plant 1 – (300 Kiloliter per day)



Figure: 8 Sewage Treatment Plant 2 – (500 Kiloliter per day)



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**Figure: 9 Tertiary treatment of sewage water using rapid sand filter, activated charcoal, UV and Chlorine disinfection**



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### 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 ( $\mu$ 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  | Phosphate (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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