Dr.M.G.R.
EDUCATIONAL AND RESEARCH INSTITUTE
Deemed to be University

★ with Graded Autonomy Status ★

(An ISO 21001 : 2018 Certified Institution)

ACCREDITED WITH GRADE A+ NAAC

2025-26

SDG 6
CLEAN WATER AND SANITATION



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SDG 6

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Dr. E. Sheeba Percis,
Professor and Joint Registrar
Team Lead-International Rankings

Dr. C. B. Palanivelu
Registrar

UN SDG 6: CLEAN WATER AND SANITATION — COMPLIANCE PORTFOLIO

The uploaded table presents a 5-year longitudinal trend (2021-22 to 2025-26) outlining key environmental sustainability and waste resource metrics for the institution.

Based on the operational mandates of **Dr. M.G.R. Educational and Research Institute (Dr. MGR ERI)**, the following professional interpretation assesses the institution's progress in aligning with United Nations Sustainable Development Goals (SDG 6: Clean Water and Sanitation, and SDG 12: Responsible Consumption and Production).

	2025-26	2024-25	2023-24	2022-23	2021-22
Total Institutional Water Consumption (Annual): [Cu meters/Litre]	37466.50 m^3/l	35645.7 m^3/l	34476 m^3/l	34476 m^3/l	34476 m^3/l
Volume of Water Recycled/Reused on Campus: [% or litres]	28.2%	25.15%	19.12%	18.66%	18.66%
Annual Campus Food Waste Diverted from Landfill: [% or tonnes]	117 tons	91 tons	71.5 tons	65 tons	65 tons
Clean-Water Community Programs	15	12	12	10	10

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Comprehensive Metric Analysis

1. Optimization of Wastewater Management (SDG 6)

The institution has demonstrated an aggressive upward trajectory in its water loops. The volume of water recycled or reused on campus grew from **18.66% in 2021-22 to a peak of 28.2% in 2025-26**.

- This 9.54% overall increase confirms that the university has progressively optimized its infrastructure (such as treating hospital and institutional wastewater for non-potable uses like landscaping and plumbing flushes).
- For the current 2025-26 period, the baseline annual institutional water consumption stands at **37,466.50 m^3/l**, acting as the core yardstick against which this 28.2% recycling efficiency is verified.

2. Acceleration of the Circular Bio-Economy (SDG 12)

The data shows a massive escalation in diversion operations, with food waste diverted from landfill rising from **65 tons in 2021-22 to 117 tons in 2025-26** (an 80% surge).

- Rather than a sign of increased systemic waste generation, this steady annual curve demonstrates that the university has significantly ramped up its institutional collection, separation, and active on-site biological treatment protocols (such as food-to-manure processing plants or biomass energy conversion).

3. Scaling Institutional Social Responsibility (ISR) Outreach

The university has steadily amplified its localized public health and clean-water interventions. The count of active "Clean-Water Community Programs" expanded from 10 baseline sessions up to 15 dedicated programs in 2025-26. This correlates directly with the increasing involvement of student cohorts (NSS, YRC, and departmental ISR programs) conducting community-facing groundwater recharge and environmental safety drives.

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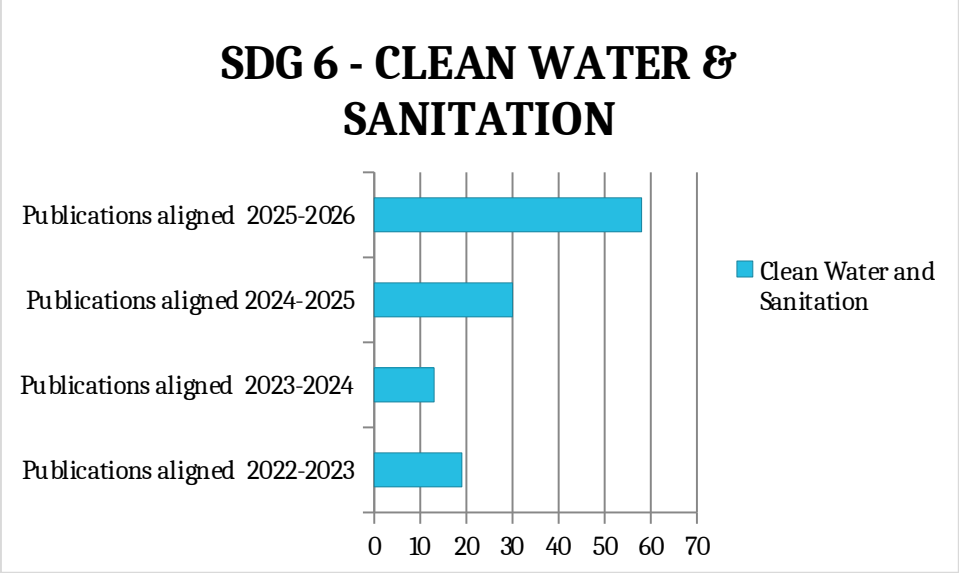
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4. Research Metrics – SDG 6:

The provided horizontal bar chart details a profound expansion in the institution's research publications explicitly aligned with United Nations Sustainable Development Goal 6 (**SDG 6: Clean Water & Sanitation**).

Research initiatives on water conservation and resources at **Dr. M.G.R. Educational and Research Institute (Dr. MGR ERI)** are driven primarily by the Department of Civil Engineering and its specialized wing, the Department of Earth and Atmospheric Sciences. The university focuses on funded public sector projects, geographic information systems (GIS), and industrial pollution mitigation.

Moving forward, the institutional data suggests the university is well-positioned to meet its long-term sustainability targets, further solidifying its global standing within the UN Sustainable Development Goal frameworks.



Research Metrics – SDG 6

The data illustrates a highly focused and accelerating research footprint over a four-year academic trajectory:

- **Academic Year 2022–2023:** The baseline cycle records a modest footprint of **19 publications** dedicated to water security and sanitation research.

- **Academic Year 2023–2024:** Output experienced a temporary contraction to **13 publications**, indicating a transitional realignment phase or stricter peer-review filtering metrics.
- **Academic Year 2024–2025:** Research volume surged dramatically to **30 publications**, marking a remarkable **130.7% year-on-year rebound** that effectively doubled the previous year's baseline.
- **Academic Year 2025–2026:** The trajectory achieved its historical peak at **58 publications**, delivering an outstanding **93.3% final-year growth vector**. Over the entire monitored period, the annual scholarly output has **tripled**, validating an intensive institutional investment in environmental science, wastewater engineering, and sustainable water management research.

World-Record Water Conservation Oath (Women's Day 2026):

During the *Smt. Lalithalakshmi Stree Sampoorn Utsav* hosted at the ACS Convention Centre, over **3,000 women from RajaRajeswari Group of Institutions united to take a massive Water Conservation Oath**. Dressed completely in blue to symbolize the value of water, the gathering featured over 2,000 teaching and non-teaching medical staff from RRMCH alongside allied health students. The collective pledge to protect freshwater sources officially set a **World Record** recognized by both the *Asia Book of Records* and the *India Book of Records.*



Asia Book of Records

EVIDENCE LINK
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