

17 Oct 2024

To

National Institute of Disaster Management (NIDM),
Ministry of Home Affairs, Government of India,
Plot no. 15, Pocket-3, Block-B, Sector-29, Rohini, Delhi - 110042.

Respected Sir,

Sub: Kumaraguru Institutions - Acknowledgement Cover Letter for Best Practices - Reg

Kumaraguru Institutions (KI), founded in 1984 by Padma Bhushan Dr N Mahalingam, comprises Kumaraguru College of Technology (KCT), KCT Business School (KCT BS), Kumaraguru Institute of Agriculture (KIA), Kumaraguru College of Liberal Arts and Science (KCLAS), and Kumaraguru School of Business (KSB). The institution synergizes to provide cross-dimensional education and integrated knowledge, nurturing empowered and conscientious students.

We are committed to advancing sustainable urban development, implemented several impactful initiatives aimed at enhancing the resilience of our communities and Campus. Through our interdisciplinary approach, we have undertaken the following projects and implemented certain best practices that exemplify our commitment to urban resilience and sustainability.

We are excited about the opportunity to showcase our best practices for the NIDM - Knowledge platform on urban resilience. We believe that sharing our initiatives can inspire other institutions to adopt similar strategies for urban resilience and community upliftment. As we aspire to become a member of NIDM - IUIN DRR, we consider this application a significant first step for your collaboration.

Thank you for considering our submission. We look forward to showcasing our work with other institutions all over India and engaging in discussions about sustainable & social impact initiatives for the nation building.

Looking forward to hearing from you.



Mr Saravanan Chandrasekaran
Asst. Vice President

Kumaraguru Institutions: Leading the Path to Green print and Sustainable Campus

Kumaraguru Institutions, with a legacy of 4 decades of academic excellence, encompasses Educational Institutions and Centres of Excellence in the domains of Engineering, Technology, Management, Science, Agriculture, Innovation, Entrepreneurship, Liberal arts and Humanities, aspiring to offer world-class special education. Padma Bhushan Arutchelvar Dr N Mahalingam established the Kumaraguru Institutions (KI), including Kumaraguru College of Technology (KCT) instituted in 1984, KCT Business School in 2005 (KCT BS), Kumaraguru Institute of Agriculture in 2014 (KIA), Kumaraguru College of Liberal Arts and Science in 2018 (KCLAS) and Kumaraguru School of Business (KSB) in 2022 drawing strength from each other for cross-dimensional education and integrated knowledge that expands intellectual horizons and builds empowered and conscientious students. With sprawling 285 acres (about the total floor space of the Pentagon) spread across three campuses, Kumaraguru Institutions offers 25 Undergraduate programmes, 19 Postgraduate programmes and 15 Research programmes. With more than 800 teaching, research, administrative and support staff, and a dozen centres of excellence and industry-sponsored labs, KI currently impacts more than 8000 students annually. Kumaraguru Institutions have been accoladed by national accrediting and ranking agencies such as NAAC, NBA, NIRF and ATAL Ranking. Kumaraguru College of Technology has been accredited with the highest A++ Grade by NAAC, positioning Kumaraguru Institutions for national prominence.



Kumaraguru Institutions are very keen to emphasize the philanthropic approach towards Social Impact, Community engagement and coexisting sustainable lifestyle by encompassing across the entire Kumaraguru ecosystem. Witnessing the contribution,

Kumaraguru Institutions Campus in Coimbatore gets Platinum rated for 5 years by Indian Green Building Council (IGBC) for sustainability initiatives at our campus.

A milestone reached in Kumaraguru Institution's Campus Sustainability Journey! The Main Campus of Kumaraguru Institutions, Coimbatore has been honored with the prestigious Platinum rating by the CII - Indian Green Building Council (IGBC) for its outstanding sustainability initiatives.

This recognition positions Kumaraguru as only the second technical institution in the Southern Region to receive such certification, which is valid for five years. The institution excelled in the CII-IGBC Green Campus Certification - Existing Buildings category, securing a remarkable score of 81 out of 90.

The evaluation encompassed various parameters, with a focus on green concepts and techniques implemented on the campus to address national concerns such as water efficiency, energy efficiency, reduction in fossil fuel use for commuting, consumer waste management, and the conservation of natural resources. Kudos and wishes to all the students, faculty and staff who are leading various campus sustainability initiatives with Kumaraguru Microcosm at their capacities across our campus.



Practice 5

Thematic Area: Infrastructure Resilience

Sub-Thematic Area: Urban Water and Sanitation Systems

Before Situation

- The campus faced significant water management challenges, including high water consumption and inefficient use of resources.
- Faucets throughout the campus had a flow rate of 7 liters per minute (LPM), leading to unnecessary water wastage.
- There was a lack of systematic monitoring for water consumption, making it difficult to identify leaks or optimize usage effectively.
- The campus was heavily dependent on external water supplies, with limited infrastructure in place for sustainable water management.

Implemented Measures

- **Aerator Installation:** Water-saving aerators were installed across key areas such as hostels, classrooms, and restrooms, reducing the flow rate from 7 LPM to 2 LPM without compromising water pressure. This initiative significantly curbed water wastage by cutting the volume of water used at each tap.
- **Water Metering:** Smart water meters were installed in various buildings to monitor water usage in real time. This system allows for the detection of leaks, optimization of water usage patterns, and data-driven decision-making for water management.

Significant Effect After Implementation

- **Water Conservation Impact:** The aerator installation resulted in daily water savings of approximately 30,000 liters, leading to an estimated annual savings of 10.95 million liters. This reduced overall campus water consumption by about 5%.
- **Efficient Water Management:** The introduction of water meters allowed for the early detection of leaks and helped identify areas with high water consumption. This facilitated targeted interventions to reduce wastage and optimize usage.
- **Stormwater Management and Flood Prevention:** The percolation ponds effectively capture stormwater, preventing flooding during heavy rains and facilitating the gradual infiltration of water into the ground. This improves local aquifer levels and enhances the resilience of the campus's water supply.

Financial Details

Expense of ₹ 50,000 in aerator installation and ₹ 3,50,000 in water metering as part of water conservation measures in campus. These efforts aim to optimize water usage, enhance efficiency, and promote sustainable practices, contributing overall commitment to responsible resource management.

Other Major Details

- **Community Involvement:** The construction of the percolation ponds involved student volunteers, emphasizing the educational aspect of sustainability practices and hands-on learning.
- **Cost Savings:** The comprehensive water practices have reduced water bills and energy costs associated with water heating.
- **Integrated Approach:** The combination of aerator installation, water metering, rainwater harvesting, and percolation ponds represents a holistic approach to water management. These initiatives collectively contribute to making the campus a model for sustainable urban water management and resilience.