

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 2

**Thematic Area:** Sustainable Urban Development

**Sub-Thematic Area:** Rainwater Harvesting

**Cover Image**



**Title:** Water Security Practices

### **Before Situation**

- Significant volumes of water were released as runoff during periods of intense rainfall, which could have been used to restock groundwater supplies.
- Rainwater runoff was not adequately captured, resulting in missed opportunities for groundwater recharge.

### **Implemented Measures**

The campus implemented multiple rainwater harvesting systems, including recharge wells and rooftop collection units. These systems feature 6-inch diameter tube wells drilled to depths of 100m to 320m, surrounded by filter chambers filled with rubble and metal aggregate to ensure efficient filtration. The structures collectively capture up to 85,000 liters of rainwater per hour during moderate rainfall.

Two percolation ponds were constructed to capture stormwater from roads and paved areas. The design was optimized based on the natural drainage patterns of the campus terrain.

### **Significant Effect After Implementation**

The rainwater harvesting structures have contributed significantly to groundwater recharge, with over 8.3 million liters of rainwater harvested during a single night of heavy rainfall. This not only supports groundwater replenishment but also reduces dependency on external water supplies.

### **Financial Details**

The project involved the establishment of four Rainwater Harvesting (RWH) Structures and two percolation ponds, aimed at enhancing water conservation and groundwater recharge within the campus. The total expenses incurred for the construction and implementation of these structures cost approximately ₹ 15,00,000.



## Other Major Details

**Capacity:** The RWH systems can capture up to 85,000 liters of water per hour during moderate rainfall, which is channeled into the ground for aquifer recharge.

**Performance:** During the last monsoon season, the campus successfully harvested over 8.3 million liters of rainwater in just one instance, demonstrating the effectiveness of the system.

**Recharge Well Design:** Each well consists of a 6-inch diameter tube drilled to depths between 100m and 125m, with a brick-encased filter chamber. The filter chamber includes layers of rubble and metal aggregate for efficient water filtration.