

Date:28.08.2026

DEPARTMENT OF CIVIL ENGINEERING

A REPORT ON INDUSTRIAL VISIT AND ONE-DAY WORKSHOP ON ADVANCED WATERPROOFING TECHNIQUES

NATIONAL ACADEMY OF CONSTRUCTION (NAC), HITEX, KONDAPUR, HYDERABAD

Objective: To provide students with practical knowledge of advanced waterproofing techniques, materials, methods, and their applications in building construction.

The Department of Civil Engineering, NNRG, organized an **Industrial Visit to the National Academy of Construction (NAC), HITEX, Kondapur, Hyderabad, on 27.08.2026** for **II and III Year Civil Engineering students**. A total of **40 students**, accompanied by faculty members, participated in the visit. The faculty and students reached the venue at **10:00 AM**.



The banner features the NNRG logo on the left and the NAC logo on the right. The central text reads: **NALLA NARASIMHA REDDY** Education Society's Group of Institutions - Integrated Campus (Approved by AICTE & PCI, New Delhi & Affiliated to JNTUH, Accredited by NAAC with A+ Grade) Chowdhariguda (V), Korremula 'X' Road, Ghatkesar (M), Medchal-Malkajgiri (D), Hyderabad - 500088, Telangana. **UGC AUTONOMOUS INSTITUTION** TRAINING & PLACEMENT CELL In association with DEPARTMENT OF CIVIL ENGINEERING & ULTRA TECH CEMENT LTD. **INDUSTRIAL VISIT** to **National Academy of Construction** Date:- 27th August 2026 (Thursday) B.Tech. II, III & IV Year CIVIL Students

As part of the industrial visit, a **One-Day Workshop on “Advanced Waterproofing Techniques”** was conducted by the **National Academy of Construction (NAC)** in **collaboration with UltraTech Cement Limited**. The workshop was designed to provide students with practical knowledge and industry exposure to modern waterproofing materials, techniques, applications, and quality practices followed in building construction.

The technical session was conducted by **Ms. K. Lakshmi Priya, Technical Manager, UltraTech Cement Limited**, who explained the importance of waterproofing in ensuring the **durability, serviceability, and protection of buildings**. She discussed the problems caused by water seepage, dampness, leakage, cracks, corrosion of reinforcement and deterioration of concrete when proper waterproofing measures are not adopted.

The resource person explained the **five key stages of building construction where waterproofing plays a crucial role**, namely:

1. **Basement and Foundation Waterproofing** – Protection against groundwater and soil moisture.
2. **Toilet and Wet Area Waterproofing** – Prevention of seepage through floors, walls, joints, and pipe junctions.

3. **Roof and Terrace Waterproofing** – Protection from rainwater penetration, leakage, and dampness.
4. **External Wall Waterproofing** – Prevention of water ingress through cracks, joints, and porous surfaces.
5. **Water Tanks and Water-Retaining Structures** – Ensuring water-tightness and preventing leakage.

The workshop also covered various **advanced waterproofing techniques**, including **cementitious waterproofing, liquid-applied waterproofing, membrane-based systems, integral waterproofing, crack and joint treatment, and other specialized methods**. Emphasis was placed on proper surface preparation, correct mixing and application of waterproofing materials, treatment of vulnerable areas, curing and quality control.

Following the technical presentation, the **UltraTech Cement Limited technical team conducted a hands-on practical demonstration**. The students actively observed the preparation and application of waterproofing materials and gained practical knowledge regarding the correct sequence of application, treatment of joints and cracks and precautions to be followed for achieving an effective and durable waterproofing system.

The workshop provided students with valuable exposure to **advanced waterproofing products, construction practices, application methods and real-world site requirements**. It helped bridge the gap between theoretical concepts taught in the classroom and their practical implementation in the construction industry.

At the conclusion of the **One-Day Workshop on Advanced Waterproofing Techniques**, **certificates were issued to the participating students** in recognition of their participation and successful completion of the workshop. The certificate distribution added further value to the programme and encouraged students to participate in similar industry-oriented training programmes.

The Department of Civil Engineering expresses its sincere gratitude to the **National Academy of Construction (NAC)** and **UltraTech Cement Limited**, especially **Ms. K. Lakhmi Priya, Technical Manager**, for organizing the technical session, practical demonstration and certificate distribution.

At the end, the students and faculty thanked Mrs K. Laxmi shiva priya for spending her valuable time in sharing her knowledge to the students and the visit ended at 4.00pm.

Outcome: Students gained hands-on exposure to waterproofing practices and enhanced their understanding of modern construction techniques, with certificates issued for participation in the workshop.



Civil Engineering faculty & students at NNRG before the start to the Visit



Ms K.Laxmi shiva priya, Ultra tech cements interacting with the students



Visit to laboratory showcasing advanced waterproofing products, construction practices



II & III Year Students and Faculty group photograph with Ms. K. Lakhmi Priya, Technical Manager & Smt. I. Shanti Sree, Director (P, PR & BD) at the National Academy of Construction (NAC)

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Industrial Visit I/C
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