



Report on
The Awareness Created On
SITA RAMA LIFT
IRRIGATION PROJECT

among the students fraternity in specific and general public in common
for being the **TITLE SPONSOR** to

NIRMAAN 2025

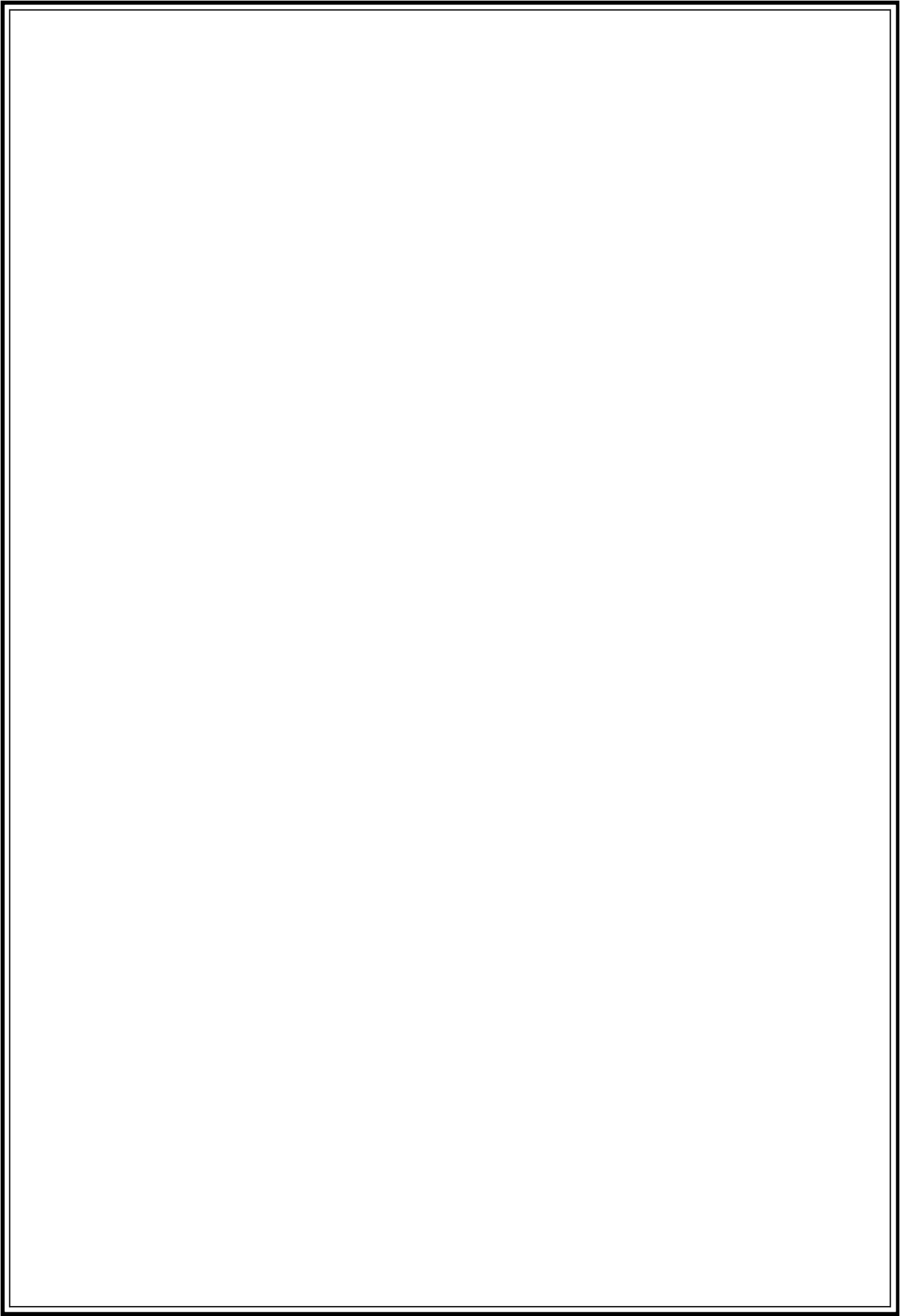
(23rd National Level Technical Symposium)

21st & 22nd March 2025

Organized by



Department of Civil Engineering
University College of Engineering (A)
Osmania University, Hyderabad



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NIRMAAN (National Level Technical Symposium)

The Department of Civil Engineering at University College of Engineering (Autonomous), Osmania University, has long stood as a pillar of academic excellence, innovation, and societal contribution. Established with a forward-thinking vision, the department strives to emerge as a premier center of learning and research in civil engineering. Its core mission revolves around shaping the intellectual, cultural, and ethical sensibilities of students, empowering them to become not only technically proficient engineers but also responsible and thoughtful citizens. By fostering a scientific mindset, the department continuously endeavors to advance the professional and technological expertise of its students, equipping them to address the ever-evolving challenges of the modern world.

In alignment with these objectives, the department proudly hosts Nirmaan, a prestigious National Level Technical Symposium. Nirmaan is conceived as a dynamic platform that recognizes and nurtures the innate abilities of undergraduate students across the nation. This symposium plays a pivotal role in preparing the next generation of civil engineers to thrive in an increasingly complex and demanding society. By encouraging innovation, critical thinking, and hands-on engagement, Nirmaan seeks to harness the full potential of student competencies, guiding them towards meaningful contributions within the field of civil engineering.

The essence of Nirmaan lies in its commitment to academic excellence, collaboration, and future-readiness. With an emphasis on the effective utilization of technological advancements and spirited participation, the symposium brings together a vibrant community of students, researchers, and industry professionals. It serves as a melting pot of ideas, fostering interdisciplinary dialogue and mutual learning. Events and competitions held under the Nirmaan banner are thoughtfully curated to challenge conventional boundaries, stimulate curiosity, and inspire innovative solutions to real-world civil engineering problems.

Recognizing that civil engineering is a multifaceted and continually evolving discipline, the organizers of Nirmaan place strong emphasis on the importance of collaborative learning and sustained innovation. The symposium encourages participants to explore cutting-edge trends, sustainable practices, and novel engineering techniques that can shape resilient infrastructure systems. Through expert talks, workshops, technical paper presentations, and interactive sessions, Nirmaan facilitates the meaningful exchange of knowledge and experiences.

Ultimately, Nirmaan is more than just a technical festival—it is a movement aimed at cultivating a culture of learning, innovation, and social responsibility within the civil engineering fraternity. It aspires to contribute significantly to the development of sustainable, inclusive, and forward-looking infrastructure that addresses the pressing needs of communities not just in India, but around the globe. Through the collective efforts of passionate students, dedicated faculty, and enthusiastic collaborators, Nirmaan continues to uphold the legacy of excellence envisioned by the Department of Civil Engineering at UCE(A), Osmania University.

Sita Rama Lift Irrigation Project

The Sita Rama Lift Irrigation Project is a landmark initiative located in the Bhadradi Kothagudem district of Telangana, aimed at harnessing the potential of the Godavari River to bring about a comprehensive agricultural and economic transformation in the region. Designed to irrigate an extensive area of 3.72 lakh acres across the districts of Bhadradi Kothagudem, Khammam, and Mahabubabad, the project plays a crucial role in addressing water scarcity and ensuring reliable irrigation for vast stretches of cultivable land.

This ambitious project represents a major stride in Telangana's commitment to equitable water distribution and integrated rural development. By lifting water from the Godavari and channeling it through a well-planned network of canals and pipelines, the Sita Rama Lift Irrigation Project aims to provide year-round water availability, which is vital for enhancing agricultural productivity and supporting multi-crop cultivation. The assurance of water supply is expected to significantly reduce dependency on monsoon rains and mitigate the risks associated with climate variability.

At the heart of the project lies the principle of sustainable water management. It not only prioritizes efficient usage and conservation of water resources but also aligns with broader environmental and social goals. The irrigation infrastructure is designed to minimize water wastage, optimize energy use, and ensure that the benefits reach even the remotest farming communities. Through this, the project seeks to empower thousands of farmers by improving crop yields, stabilizing incomes, and enabling access to modern farming practices.

Beyond agriculture, the Sita Rama Lift Irrigation Project is poised to drive holistic rural development. It has the potential to create employment opportunities, improve food security, and enhance the overall quality of life in the beneficiary regions. By transforming previously rain-dependent lands into fertile, cultivable zones, the project will act as a catalyst for regional prosperity and resilience.

In essence, the Sita Rama Lift Irrigation Project stands as a testament to Telangana's forward-looking approach in infrastructure development and natural resource management. It embodies a vision where technology, sustainability, and community welfare converge to build a more self-reliant and prosperous agrarian economy.

2.1 Objectives and Benefits

The Sita Rama Lift Irrigation Project is not only a feat of engineering but also a transformative step toward equitable and sustainable agricultural development in Telangana. It brings together innovation, infrastructure, and inclusive growth under a unified vision. Below are the key highlights that define the strategic importance and multifaceted impact of this flagship initiative:

Irrigation Expansion

At the core of the project is the objective to provide assured and consistent water supply to over 3.72 lakh acres of agricultural land across Bhadrachalam-Kothagudem, Khammam, and Mahabubabad districts. By significantly reducing the reliance on unpredictable monsoon rains, the project empowers farmers with the confidence to adopt multi-crop practices, enhance yields, and invest in their fields with greater security.

Drought Mitigation

The project plays a pivotal role in strengthening water security in semi-arid and drought-prone areas of the region. With a robust lift mechanism and water distribution system, it helps mitigate the harsh impacts of seasonal droughts, safeguarding both livelihoods and food production. This resilience is crucial for the long-term sustainability of rural communities that have historically faced water scarcity and crop failure.

Infrastructure Growth

The Sita Rama Project incorporates a massive network of reservoirs, pump houses, canals, and regulating structures designed for efficient water conveyance and utilization. The integration of modern engineering solutions ensures minimal water loss and operational efficiency.

Economic Upliftment

Beyond its agricultural benefits, the project is a powerful driver of rural economic growth. By increasing irrigation coverage, it enhances farm productivity, thereby boosting farmer incomes. Additionally, the project stimulates employment—both during its construction and operational phases—and supports allied sectors such as agro-processing, transportation, and equipment supply. This holistic development strengthens the rural economy and curbs migration by offering sustained livelihood opportunities locally.

Government Initiative

The Sita Rama Lift Irrigation Project stands as a flagship development under the Government of Telangana, reflecting its steadfast commitment to irrigation-led growth and rural transformation. It aligns with the broader mission of equitable water resource utilization and sustainable agricultural expansion across the state. As a strategic investment, the project reinforces the government's vision to make Telangana self-reliant in food production while uplifting the socio-economic conditions of its farmers.

Irrigation and CAD Department, Govt. of Telangana

It is important to mention here that, the Title sponsor for NIRMAAN-2015, NIRMAAN-2017 and NIRMAAN-18 was Government of Telangana, I&CAD Department, under Mission Kakatiya project ,Kaleshwaram Project and Palamuru RangaReddy Lift Irrigation Project. We profusely thank particularly the five companies

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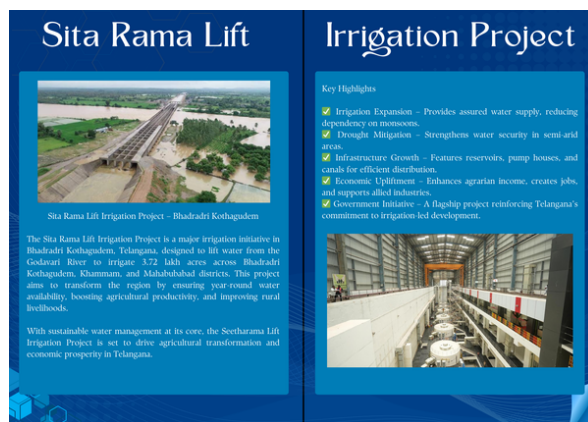
SAI LAXMI CONSTRUCTIONS

MEIL

that granted us aid and also I&CAD department for the support given for making Nirmaan-25 Technical Symposium a grand Success.

Sita Rama Lift Irrigation Project as TITLE Sponsor

SRLIP as TITLE Sponsor on Souvenir



SRLIP as TITLE Sponsor on Tshirts



Inaugural Function

Inauguration of the 23rd National-Level Technical Symposium, Nirmaan'25 The Department of Civil Engineering, Osmania University, is pleased to announce the successful inauguration of Nirmaan'25 on 21st March 2025.

The inaugural ceremony was graced by the esteemed presence of Shri Prasanth J. Patil, I.A.S, Special Secretary to the Government, Irrigation and CAD Department, Government of Telangana; Prof. Kumar Molugaram, Vice Chancellor, Osmania University; Shri A. Srinivasa Reddy, Engineer-in-Chief; and Shri Rajeev Bisht, Head of Technical Marketing, Shree TMT.

Nirmaan is a prestigious two-day national-level technical symposium hosted annually by the Department of Civil Engineering, Osmania University. The event provides a platform for students and professionals to engage in knowledge exchange, technical discussions, and insights into industry advancements.

During the inaugural session, Shri A. Srinivasa Reddy, Engineer-in-Chief, emphasized the pivotal role of civil engineering in contemporary infrastructure development. He provided an overview of the Sita Rama Lift Irrigation Project, discussing its technical aspects and recent advancements while highlighting the significance of lift irrigation in modern water management. Prof. Kumar Molugaram, Vice Chancellor, Osmania University, reflected on the rich legacy of the Department of Civil Engineering and shared his experiences from previous visits. He commended the organizing team for their dedication and efforts, particularly in developing the Main Model initiative. Shri Rajeev Bisht, Head of Technical Marketing, Shree TMT, inspired students to contribute towards the vision of a "Viksit Bharat" (Developed India) and underscored the importance of gaining practical industry experience to excel as civil engineers.

Shri Prasanth J. Patil, I.A.S, highlighted the importance of passion and interest in one's chosen field. He stressed the growing need for industry-oriented technical education, encouraging students to align their learning with evolving sectoral demands. Following the inaugural session, an interactive discussion was held, during which students engaged with the dignitaries, posing questions regarding the role of government officers in infrastructure development and seeking insights into the technical intricacies of the Lift Irrigation Project.

In the second half of the event, the dignitaries formally launched the souvenir of Nirmaan'25 and inaugurated the Main Model of the Sita Rama Lift Irrigation Project.

Additionally, miniature models designed by first-year students, including the Panama Canal, Srisailem Left Bank Canal (SLBC), Kaleshwaram Lift Irrigation, Water Distribution System, Tensegrity Structures, Venice Water Harvesting System, Smart City, Road Interchanges, Tokyo Skytree, Polavaram Project, Pervious Concrete, Pamban Bridge and Magnetic Levitation Houses. were also presented, showcasing the innovative approach and technical acumen of the participants.

The symposium aims to foster innovation, technical excellence, and industry-academic collaboration, further strengthening the role of civil engineering in national development.



Mini Models



The SLBC tunnel project reflects Telangana's commitment to sustainable irrigation and rural development by channeling Krishna River water to drought-prone areas. Despite challenges, the swift coordination of rescue efforts by national agencies in 2025 showcased India's strong emergency response capabilities and engineering resilience.



Water distribution systems deliver treated water from storage to end users through pipelines, pumps, and tanks. They ensure reliable supply, maintain pressure, and support public health, with modern systems using sensors and automation to improve efficiency and reduce waste.



The Polavaram Project is a major irrigation and hydroelectric dam on the Godavari River in Andhra Pradesh. It aims to irrigate over 7 lakh hectares, generate 960 MW of power, supply drinking water, and aid in flood control and river interlinking across multiple states.



Interchanges in modern India offer significant advantages by enabling smooth and signal-free movement of vehicles, especially at busy junctions and highways. They reduce traffic congestion, minimize delays, and enhance safety by eliminating direct crossing conflicts. These structures also improve fuel efficiency and travel time, supporting better connectivity and economic growth, particularly in rapidly urbanizing regions.



A smart city leverages technology, data, and IoT to optimize urban services such as traffic management, waste disposal, energy use, and public safety. By improving infrastructure and enhancing efficiency, it aims to provide better living conditions, reduce environmental impact, and foster economic growth. Smart cities focus on sustainability, innovation, and improving the overall well-being of residents.



The Panama Canal is a vital artificial waterway that connects the Atlantic and Pacific Oceans, significantly reducing travel time for ships. Completed in 1914, it revolutionized global trade by providing a shorter and more efficient route for international shipping, boosting economic growth and connectivity between continents.



A Magnetic Levitation (Maglev) house uses magnetic forces to levitate and float above the ground, reducing friction and enhancing stability. This futuristic concept aims to provide energy efficiency, better durability, and resistance to environmental factors, offering a new frontier in sustainable and innovative housing.



Pervious concrete is a type of porous concrete that allows water to pass through it, reducing surface runoff and promoting groundwater recharge. This eco-friendly material is used in pavements, driveways, and parking lots, helping to manage stormwater and reduce flooding while improving environmental sustainability.



Venice Water Harvesting



Venice's water harvesting system collects rainwater to address flooding and water scarcity, using tanks and advanced drainage to reduce reliance on external sources and combat rising sea levels. This sustainable approach helps preserve the city's unique environment and infrastructure.



Pamban Bridge

The new Pamban Bridge, a cable-stayed structure, connects the Indian mainland to Rameswaram Island, replacing the old railway bridge. It improves road and rail connectivity, ensuring safer and more efficient travel.



Kaleshwaram Lift Irrigation Project

The Kaleshwaram Project is a major multi-purpose irrigation venture in the state of Telangana, India. Built on the Godavari River, it is one of the largest lift irrigation projects in the world, designed to provide water for irrigation, drinking, and industrial use across several drought-prone districts. The project involves massive infrastructure, including a series of barrages, reservoirs, and pumping stations that lift water over significant elevations. Launched in 2016 and inaugurated in 2019, the Kaleshwaram Project aims to transform agriculture in Telangana by irrigating over 18 lakh acres of land.

Nirmaan 2025

Day 1: Inaugural Session and Fest Kick-Off

The vibrant two-day technical fest, NIRMAAN 2025, hosted by the Department of Civil Engineering, University College of Engineering, Osmania University began with an enthusiastic and colorful inaugural ceremony on 21 March 2025. The event commenced with a warm welcome address by Prof. K.L. Radhika, Head, Department of Civil Engineering, Osmania University and the ceremonial lighting of the lamp, symbolizing the ignition of knowledge and innovation. Faculty members, dignitaries, guests, and students from various engineering colleges across Hyderabad were in attendance.

Chief Guest Address:

The session was graced by the esteemed presence of Shri Prasanth J. Patil, I.A.S, Special Secretary to the Government, Irrigation and CAD Department, Government of Telangana; Prof. Kumar Molugaram, Vice Chancellor, Osmania University; Shri A. Srinivasa Reddy, Engineer-in-Chief; and Shri Rajeev Bisht, Head of Technical Marketing, Shree TMT, who shared valuable insights on the evolving landscape of civil engineering and encouraged students to contribute toward sustainable development.

Following the formal inauguration, the fest proceeded with a lineup of engaging events designed to foster creativity, critical thinking, and practical engineering skills.

Technical Events Conducted

The technical segment of the fest included a wide range of competitions and exhibitions:

- **Paper and Poster Presentations:** Students presented their technical papers on innovative solutions in civil engineering. Posters allowed for a creative visual communication of complex topics.
- **Model Making & Expo:** Participants showcased miniature infrastructure projects, structural systems, and sustainable designs. The main attraction was the to-scale model of the Sita Rama Lift Irrigation Project, which received overwhelming appreciation for its detail and execution.
- **CADmania:** Students competed to demonstrate their proficiency in AutoCAD and civil drafting.
- **Quizophile:** Intellectually challenging quizzes were conducted covering technical, logical, and general awareness topics.
- **Workshop:** Expert-led sessions were held on cutting-edge tools and technologies relevant to civil engineering.

There was a lunch break from 2:00 PM to 3:00 PM, giving attendees a breather and a chance to interact with students from other institutions. The events continued after the lunch break and the first day of the fest concluded.

Day 2: Non-Technical Events & Valedictory

The second day, [Insert Date], continued with enthusiastic participation. Several non-technical events added fun, creativity, and team spirit to the mix:

- **Filmy Dunia:** Students demonstrated their knowledge about the Indian films .
- **Treasure Hunt:** A campus-wide event that combined logical clues with physical exploration.
- **Auction:** Students showcased their auctioning skills and bidding for the best team for the win.

Visitors from other colleges and alumni also joined in, and the overall footfall was high throughout both days. The lunch break on Day 2 was from 1:00 PM to 2:00 PM, after which final rounds of events and judging were conducted.

The fest concluded with the Valedictory Ceremony at 4:00 PM. The event was presided over by G. Vijaya Bhasker Reddy, Engineer-in-Chief (O&M), I&CAD Dept., Govt. of Telangana; Prof. A. Krishnaiah, Dean, Faculty of Engineering; Mr. Kalyan Srinivas, Associate Vice President, Megha Engineering who congratulated the organizing team and winners. Prof. K.L. Radhika , Head, Department of Civil Engineering delivered the closing address, emphasizing the role of such events in fostering practical learning, networking, and professional growth.

Winners of various competitions were honored with trophies and certificates. The student organizers, volunteers, and faculty coordinators were commended for their dedication and smooth execution of the fest.

The final vote of thanks was presented by V. Goutham Krishna, who expressed gratitude to the chief guests, sponsors, participants, and support staff.

Nirmaan 2025 was a grand success, marked by energetic participation, interdisciplinary engagement, and a strong showcase of student talent. The highlight—the detailed Sita Rama Lift Irrigation Project model—stood as a testament to the department's technical excellence and creativity. With participation from colleges across Hyderabad and glowing feedback from attendees, the fest left a lasting impression and set the benchmark for future editions.

Valedictory Function

The fest concluded with a grand Valedictory Ceremony held at 4:00 PM on 22 March 2025. The auditorium was filled with participants, faculty, guests, and students, all gathered to celebrate the success of the two-day event. The session marked the formal closure of the fest and provided an opportunity to reflect on the achievements, acknowledge contributions, and recognize excellence displayed during the event.

The session was presided over by distinguished dignitaries:

- Mr. G. Vijaya Bhasker Reddy, Engineer-in-Chief (O&M), I&CAD Department, Government of Telangana,
- Prof. A. Krishnaiah, Dean, Faculty of Engineering, and
- Mr. Kalyan Srinivas, Associate Vice President, Megha Engineering and Infrastructures Ltd.

Each of the dignitaries addressed the gathering with insightful messages and congratulated the organizing committee for their exceptional efforts. Mr. G. Vijaya Bhasker Reddy emphasized the importance of hands-on learning in civil engineering and appreciated the scale-model representation of the Sita Rama Lift Irrigation Project, calling it a commendable initiative in linking academic work with real-time engineering challenges. Prof. A. Krishnaiah acknowledged the efforts of both students and faculty, encouraging them to continue hosting such interdisciplinary and impactful events. Mr. Kalyan Srinivas, speaking from an industry perspective, highlighted the significance of these platforms in bridging the gap between academia and real-world infrastructure demands.

Prof. K.L. Radhika, Head of the Department of Civil Engineering, delivered the closing address. She spoke about the vision behind organizing the fest and expressed immense pride in how students rose to the occasion to make it a memorable and meaningful experience. She emphasized that such events play a critical role in fostering technical skills, leadership, collaboration, and professional networking among budding engineers.

The ceremony also included the prize distribution, where winners of various technical and non-technical events were honored with trophies, medals, and certificates. The applause and cheers from the audience reflected the spirit of sportsmanship and celebration.

Special mention was made of the efforts of student organizers, volunteers, and faculty coordinators, whose tireless work behind the scenes ensured the seamless execution of the two-day fest. Their commitment, planning, and teamwork stood as the backbone of the event's success.

The formal proceedings concluded with a heartfelt vote of thanks delivered by V. Goutham Krishna, Student Convenor. He expressed sincere gratitude to all the dignitaries, guests, sponsors, participants from various colleges across Hyderabad, and every individual who contributed to the event in big and small ways. He highlighted the collective effort it took to bring the fest to life and thanked everyone for their support and presence.

The Valedictory Ceremony brought the curtains down on what was a truly vibrant and enriching fest—leaving behind memories, learnings, and inspiration for future endeavors.

Concluding Remarks

The successful completion of this two-day Technical Symposium marks yet another milestone in the journey of academic and co-curricular excellence at University College of Engineering, Osmania University. It was not merely a sequence of events, but a well-orchestrated experience that brought together innovation, intellect, creativity, and collaboration under one roof. With a rich blend of technical competitions, non-technical engagements, and model exhibitions, the fest provided students a platform to demonstrate their skills, explore new ideas, and interact with peers from across the city.

A highlight of the event was the to-scale model of the Sita Rama Lift Irrigation Project, a remarkable student-driven initiative that received immense appreciation from both the dignitaries and visitors. It stood as a testament to the department's commitment to integrating theoretical knowledge with practical, real-world applications. The model not only educated onlookers about one of Telangana's major irrigation projects but also reflected the planning, precision, and passion that went into its execution.

The enthusiastic participation from engineering colleges across Hyderabad significantly contributed to the diversity and competitiveness of the fest. Whether in paper presentations, CAD design contests, quizzes, debates, or cultural events, students showcased high levels of energy, preparedness, and innovation. It was heartening to see young minds actively engaging, learning from one another, and forming lasting connections.

The event would not have been possible without the relentless efforts of the organizing committee, student volunteers, and faculty coordinators, whose behind-the-scenes dedication ensured smooth execution from start to finish. The presence and encouragement of distinguished guests and alumni added immense value to the experience, bridging the gap between academic aspirations and industry realities.

In conclusion, the fest has reaffirmed the belief that education extends far beyond the classroom. Events like these cultivate leadership, spark curiosity, and strengthen a sense of community among budding professionals. As we reflect on the success of this edition, we are inspired to set even higher standards for the future—ensuring that each year, our efforts continue to empower students, celebrate innovation, and uphold the spirit of engineering excellence.