



**METHODIST**  
COLLEGE OF ENGINEERING & TECHNOLOGY  
(An UGC-AUTONOMOUS INSTITUTION)



Accredited by NAAC with A+ and NBA  
Estd : 2008 Affiliated to Osmania University & Approved by AICTE

### DEPARTMENT OF CIVIL ENGINEERING

#### VISION

To evolve into a centre of excellence for imparting holistic civil engineering education contributing towards sustainable development of the society.

#### MISSION

- M1. To impart quality civil engineering education blended with contemporary and interdisciplinary skills.
- M2. To provide enhanced learning facilities and professional collaborations to impart a culture of continuous learning.
- M3. To involve in trainings and activities on communication skills, teamwork, professional ethics, environmental protection and sustainable development.

#### PROGRAM EDUCATIONAL OBJECTIVES

Within three to five years of graduation, the Civil Engineering B.E. graduates are expected to:

- PEO 1: Engage in planning, analysis, design, construction, operation and maintenance of built environment.
- PEO 2: Apply the knowledge of civil engineering to pursue research or to engage in professional practice.
- PEO 3: Work effectively as individuals and as team members in multidisciplinary projects with organizational and communication skills.
- PEO 4: Demonstrate the spirit of lifelong learning and career enhancement aligned to professional and societal needs.

#### PROGRAM OUTCOMES

- PO1 Engineering knowledge
- PO2 Problem Analysis
- PO3 Design/development of solutions
- PO4 Conduct investigations of complex problems
- PO5 Modern Tool Usage
- PO6 The engineer and society
- PO7 Environment & sustainability
- PO8 Ethics
- PO9 Individual and Team work
- PO10 Communication
- PO11 Project Management and Finance
- PO12 Life-long Learning

#### PROGRAM SPECIFIC OUTCOMES

- PSO 1: Investigate properties of traditional and latest construction materials using standard testing methods.
- PSO 2: Use AutoCAD, STAAD Pro, ETABS, Revit Architecture and ANSYS software for computer aided structural analysis and design.
- PSO 3: Describe the principles of sustainable development and green buildings for environmental preservation.

**CIVIL TIMES**  
DEPARTMENT OF CIVIL ENGINEERING



Department Newsletter  
December 2022

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### In Focus

### Street cause - Dandiya Mahotsav

DANDIYA MAHOTSAV has created history, being the largest division-based fundraiser of Street Cause. It was held on 1st October 2022, at Malla Reddy Gardens, Bowenpally, Hyderabad by 6 divisions of Street Cause Hyderabad.



Street Cause has executed 15,000+ projects, spending around INR 3+ crores, impacting 3lakh+ people and 273+ animals, establishing college divisions in more than 65+ colleges across Bangalore, Chennai, Hyderabad, Kochi, Pune and Visakhapatnam with 8,000+ workforce and 10,000+ alums and seven units contributing to a specific cause. The units include Street Cause Gold, a unit for the working professionals, Street Cause PAW, catering to animal welfare, Street Cause Force, focusing on the environment, Street Cause I&R, for delivering high-quality projects, Street Cause PRIDE to spread awareness about the LGBTQ+ community, the Hyderabad Youth Assembly, to contribute to the UN's SDGs and Street Cause Originate, the design studio.

## **Building Tomorrow: The Sustainable Strength of Ground Granulated Blast Furnace Slag (GGBS)**

Recently, an enlightening seminar took place at Methodist College of engineering and Technology, shedding light on the transformative potential of Ground Granulated Blast Furnace Slag (GGBS) in modern construction. Attendees delved into the applications, standards, and real-world impact of GGBS, discovering how this byproduct from the steel industry is reshaping the way we build. The seminar not only highlighted the strength and sustainability aspects of GGBS but also provided insights into its diverse applications and compliance with Indian Standards (IS16714). This event was a crucial step towards fostering a deeper understanding of eco-friendly and resilient construction practices among the college community.



At its core, GGBS enhances the strength and durability of concrete, reducing permeability and the risk of cracks. What makes it truly remarkable is its sustainability quotient. By repurposing industrial waste, GGBS aligns seamlessly with the global push towards green and sustainable building practices. It's not just about constructing buildings; it's about building a future that is both robust and

Explore the versatility of GGBS in diverse concrete applications, all while adhering to the Indian Standard guidelines (IS16714). Through insightful case studies, witness the tangible impact of GGBS in successful construction projects. These stories underscore its reliability and effectiveness, showcasing GGBS as a reliable ally in crafting resilient and sustainable built environments. Beyond immediate advantages lie economic and environmental benefits. However, as with any innovation, challenges exist. Delve into the intricacies of GGBS application, understanding both its benefits and potential obstacles. Looking ahead, explore the future trends and innovations that promise an even more sustainable and resilient construction landscape, powered by the strength of GGBS.



In summary, the seminar held at Methodist College provided an insightful exploration into the potential of Ground Granulated Blast Furnace Slag (GGBS) in the field of construction. Participants gained valuable knowledge about the strength, sustainability, and practical applications of GGBS, recognizing its crucial role in shaping the future of environmentally friendly and resilient building practices. This seminar has not only expanded our understanding of construction materials but has also highlighted the transformative impact that GGBS can have on the industry. Methodist College continues to be a hub for knowledge dissemination, contributing to a future where construction is synonymous with strength, durability, and sustainable practices.