

MALNAD COLLEGE OF ENGINEERING

HASSAN 573202, KARNATAKA (An Autonomous Institute under VTU, Belagavi)

DEPARTMENT OF CIVIL ENGINEERING



Report on

Visit to – “World of Concrete (WOC) Exhibition and ASCE - Annual General Meeting (AGM)”

(From 16/10/2024 to 18/10/2024)

Submitted to:

Dr. A. J. KRISHNAIAH

PRINCIPAL

Malnad College of Engineering

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ACKNOWLEDGEMENT

On behalf of the **ASCE Student Chapter of Malnad College of Engineering, Hassan**, we would like to extend our deepest gratitude to the management of **Malnad College of Engineering (MCE)** and **Malnad Technical Education Society (MTES®)** for providing us with the invaluable opportunity to attend the ASCE Annual General Meeting and World Concrete Fair held in Mumbai. This experience has been instrumental in expanding our understanding of advanced civil engineering practices and exposing us to the latest innovations in concrete technology.

Attending this event has been a unique platform to engage with leading industry professionals, understand global trends in civil engineering, and gain practical insights into real-world applications. We are immensely thankful for the opportunity to enhance our knowledge, skills and network, all of which will have a lasting impact on academic and professional journey.

We would like to express our sincere gratitude to the following esteemed members for providing us with this remarkable opportunity, as well as for their constant guidance and commitment towards fostering academic excellence and professional development among the students of MCE:

Sri Ashok Haranahalli, Chairman, GC of MCE & MTES®,

Sri C.M. Thimmappa Gowda @ Puttaraju, Vice-Chairman of MCE, Director, MTES®,

Sri R.T. Dyave Gowda, Secretary, MTES®.

Sri S.G. Sridhara, Treasurer, MTES®.

Special Thanks

We would like to express our sincere appreciation and gratitude to **Dr. A. J. Krishnaiah**, Principal of Malnad College of Engineering, for his continuous support and guidance. During his leadership, the establishment of the ASCE Student Chapter has been a significant milestone for the institution and has been crucial in promoting academic excellence and innovation.

We also wish to express our sincere gratitude to our Industry Practicing Advisors, particularly **Er. Narasimha Chary Poloju**, whose invaluable support and astute contributions have greatly enhanced our efforts. We also extend our thanks to **Er. Bhushan Panchakarla** for his support.

Additionally, we would like to thank **Dr. Mohan Kumar Chavan**, Head of Department, for his unwavering commitment to student development, as well as **Mrs. Brunda B. N.** and **Mrs. Rashmi B. R.**, the Faculty Advisors of the ASCE Student Chapter, whose passion for mentoring has profoundly impacted our growth. Their invaluable guidance has been pivotal in preparing and motivating the students for this prestigious event. Thank you all for your unwavering commitment and encouragement.

SUMMARY

World of Concrete India, popularly known as WoC India, country's only unique exhibition on concrete industry. This is the Indian edition of World of Concrete, Las Vegas (USA), the world's largest and the most leading showcase of concrete solutions and construction equipment.

The exhibition features a wide range of products and technologies related to concrete, masonry, construction and related equipment. It provides a platform for construction professionals to connect with suppliers, manufacturers, and industry experts to exchange ideas, knowledge, and insights. The event attracts a diverse range of visitors, including architects, engineers, builders, contractors, and project managers.

The 10th Edition of the World of Concrete India (WoCI) exhibition, scheduled for October 16-18, 2024, is set to unite more than 10,000 industry experts and feature participation from over 200 global exhibitors, showcasing the latest products, technologies, and innovations in the concrete industry.

During our visit to WOC 2024, on 16th we have attended **Conference** on "Shotcreting using Macro fill and Micro fill Synthetic Fibers" followed by that we engaged with over 50 firms, expanding our understanding of the civil engineering infrastructure market. We discovered that the industry's scope is much broader than our current syllabus covers, providing insights into emerging trends, technologies, and opportunities. Many companies expressed a strong interest in supporting our students, offering prospects for placements, internships, like Infra.Market Concrete, ARC Insulation and Insulators, Dextra, Ridhi Enterprises, Recron 3s, ECMAS, UltraTech and even proposing to collaborate on establishing an incubation centre by Cretebots Digital Construction Private Limited This experience was valuable in bridging the gap between academic knowledge and industry requirements, enriching both faculty and student perspectives on the field.

On 18th **Annual General Meeting of ASCE** Student Chapter was held at Board Room Presided by Er. Ravindra J Ringshia, ASCE President of Western Region, was well-attended by prominent board members, faculty members, and student representatives from across the country. The AGM followed a structured agenda, which was meticulously planned to cover all essential aspects of ASCE-IS's activities. An important focus of the meeting was the activities of student chapters across India. All student chapters were encouraged to submit their annual reports by 2nd October 2024, to be included in the AGM. Student chapters were encouraged to prepare and deliver presentations at the meeting to highlight their achievements. Our presentation received positive feedback from board members, who commended our efforts. They also emphasized the importance of research on the use of waste plastic in construction, urging us to explore this topic further under the ASCE platform. This recommendation aligns with current industry trends, promoting sustainable practices and innovative material use in civil engineering.

We are incredibly fortunate to be a part of an institution that values professional growth and innovation. The leadership and support we have received have empowered us to excel, and we are motivated to continue upholding the values and standards set by the management of **Malnad College of Engineering** and MTES®.

Thank you once again for providing us with this incredible platform and for nurturing the future of civil engineering.

INTRODUCTION

ASCE event "The World of Concrete" is an international trade fair and conference that brings professionals from the concrete and masonry industries to this annual international, two-and-three-day event. Scheduled from October 16 to 18, 2024, the event will be held at the Bombay Exhibition Center, NESCO, in Mumbai, which serves as a central hub where one gets to see the latest advances, technologies, and innovations in concrete construction.

"The World of Concrete is designed to meet the evolving needs of civil engineers, contractors, architects, construction managers and other professionals engaged in designing, constructing, and maintaining concrete structures. Over the course of three days, attendees will get the chance to explore an enormous range of company stalls presented by the best world manufacturers, suppliers, and innovators. At these stalls, state-of-the-art equipment, products, and services will be on display for improving the efficiency, sustainability, and safety of construction. In concrete mixers and the latest construction materials, repairing technologies, advance tools, safety equipment, finishing solutions, attendees will see first-hand which is shaping the future of the industry.

The event forms an interactive platform that ensures networking, knowledge is passed across and professional development. The event offers ample opportunities for visitors to explore the widest range of educational programs, including seminars and live demonstrations to provide insights into emerging trends, best practices, and new techniques in concrete and masonry construction. The core topics the course integrates range from sustainable construction, smart materials, innovative design solutions, durability, and safety issues.



Day 1

Date: 16/10/2024



1. NBM Media – NBM and CW

The NBM Media stall, representing NBM & CW (Construction World), offers attendees a wealth of information and resources focused on the construction, infrastructure, and equipment sectors. NBM & CW is one of India's leading publications in the construction and building materials industry, and their presence at the event provides attendees with access to key industry insights, publications, and trends.

1. **Industry Publications and Magazines:** Visitors can explore copies of NBM & CW's magazines and reports that cover a broad spectrum of topics in the construction industry, including updates on major infrastructure projects, new materials, market trends, and technological advancements.
2. **Market Reports and Insights:** The stall will provide attendees with in-depth market research, trend analysis, and forecasting for various sectors of the construction and building materials industries. This information is vital for professionals looking to stay informed about the latest developments in the market.

3. **Innovations in Construction Materials and Technology:** NBM & CW often showcases the latest innovations in building materials, construction technology, and equipment. Attendees can learn about new products and solutions designed to enhance construction efficiency and sustainability.
4. **Networking Opportunities:** The stall provides a platform for connecting with industry experts, thought leaders, and stakeholders. Attendees can engage in discussions on upcoming projects, industry challenges, and potential collaborations.
5. **Digital Platforms and Media:** NBM & CW also highlights their digital platforms, which provide regular updates and online content for construction professionals. Attendees will be introduced to their online news portals, webinars, and digital forums where they can stay connected with the latest industry news.



2. Renuka Construction:

Renuka Construction is expected to offer a range of services and solutions tailored to the needs of the construction and infrastructure industries.

1. **Construction Services:** Renuka Construction may highlight its comprehensive construction services, including civil works, infrastructure development, residential and commercial construction, and turnkey project execution. They could showcase their portfolio of successful projects, from small-scale constructions to large infrastructure developments.

2. **Innovative Building Solutions:** The stall may present the company's innovative construction techniques and materials aimed at enhancing building durability, sustainability, and cost efficiency. They could provide demonstrations or case studies of their use of modern construction technology.
3. **Project Management Expertise:** Renuka Construction may also focus on their project management capabilities, offering insights into how they handle planning, coordination, and execution of large-scale projects while maintaining high standards of safety and quality.
4. **Sustainability and Green Building Initiatives:** With the growing focus on sustainable construction, Renuka Construction could promote their involvement in green building practices, including eco-friendly materials, energy-efficient designs, and sustainable construction methodologies.
5. **Consultation Services:** Attendees might also have the opportunity to engage with experts from Renuka Construction for consultations and discussions on how the company can meet specific project needs, whether it's for residential, commercial, or infrastructure development.



3. Associated Chemicals:

Associated Chemicals is expected to offer a range of specialized chemical products designed for the construction and concrete industry.

1. **Construction Chemicals:** Associated Chemicals will likely showcase a wide array of construction chemicals used to enhance the performance, strength, and durability of concrete structures. These may include:
 - **Admixtures:** Products like plasticizers, superplasticizers, retarders, and accelerators to modify the properties of concrete for improved workability and setting times.
 - **Waterproofing Solutions:** Chemicals that help protect concrete structures from water penetration, ensuring long-lasting durability in various environmental conditions.

2. **Concrete Repair Products:** The stall may feature products for concrete repair and rehabilitation, such as crack fillers, bonding agents, and surface repair materials, which are essential for maintaining and restoring damaged structures.
3. **Coatings and Sealants:** Associated Chemicals could highlight a range of protective coatings and sealants designed to shield concrete surfaces from environmental stressors like moisture, chemicals, and temperature fluctuations.
4. **Surface Treatments:** They may offer surface hardeners and curing compounds that improve the wear resistance and durability of concrete surfaces, particularly in industrial and commercial applications.
5. **Sustainable and Eco-friendly Solutions:** Given the industry's growing focus on sustainability, Associated Chemicals may introduce green construction chemicals, which help reduce environmental impact without compromising on performance.
6. **Technical Support and Consultation:** Attendees can expect to engage with experts from Associated Chemicals who can provide technical advice and recommend the right chemical solutions for specific construction needs or challenges.



4. GR Infraprojects Limited:

GR Infraprojects Limited will likely showcase their expertise in the infrastructure development sector.

1. **Infrastructure Development Services:** GR Infraprojects specializes in the construction of large-scale infrastructure projects. They may present their capabilities in developing highways, expressways, bridges, flyovers, tunnels, and airport runways, highlighting their successful projects across India.
2. **Turnkey Project Execution:** The Company is known for its expertise in turnkey solutions, handling projects from concept to completion. This includes project

planning, design, construction, and maintenance, ensuring timely delivery and high-quality standards.

3. **Engineering, Procurement, and Construction (EPC) Services:** GR Infraprojects may emphasize their EPC contracting services, offering complete project execution with a focus on innovation, sustainability, and efficient resource management.
4. **Innovative Construction Techniques:** Attendees will likely learn about the company's use of cutting-edge construction technologies and methods to improve the speed and efficiency of large infrastructure projects, while maintaining safety and quality.
5. **Sustainable Construction Practices:** As sustainability becomes more central to infrastructure projects, GR Infraprojects may showcase their efforts in adopting green building practices, energy-efficient designs, and sustainable construction materials.
6. **Project Portfolio:** G R Infraprojects will likely feature a comprehensive portfolio of completed and ongoing projects, demonstrating their expertise in handling complex and large-scale infrastructure projects, both urban and rural.
7. **Consultation and Partnership Opportunities:** The company may provide opportunities for collaborations and consultations on upcoming infrastructure projects, allowing attendees to explore partnership possibilities with one of India's leading infrastructure development firms.



5. Infra.Market Concrete:

Infra.Market Concrete Limited is expected to offer a range of construction materials and solutions, with a focus on concrete products.

1. **High-Quality Ready-Mix Concrete (RMC):** Infra.Market is known for its ready-mix concrete offerings, which cater to a variety of construction projects, including residential, commercial, and infrastructure development. They may showcase different grades and types of RMC that ensure consistency, strength, and durability.
2. **Precast Concrete Solutions:** The stall might present precast concrete products, such as concrete blocks, slabs, beams, and other structural elements, which are designed for faster and more efficient construction. These solutions can reduce construction timelines and improve the overall quality of the structure.
3. **Construction Materials and Aggregates:** Attendees can explore Infra.Market's wide range of building materials, including aggregates, cement, and other concrete-related products, all sourced and manufactured to meet industry standards for quality and performance.
4. **Sustainability and Eco-Friendly Concrete:** With the growing demand for sustainable construction, Infra.Market might highlight their efforts in offering eco-friendly concrete solutions, such as products with lower carbon footprints, recycled materials, and technologies that reduce environmental impact while maintaining high strength and performance.
5. **Technological Advancements in Concrete:** Infra.Market is also known for leveraging technology to improve the supply chain and manufacturing processes for construction materials. Attendees may learn about their tech-driven solutions, including streamlined procurement, better logistics, and real-time tracking of materials, which help ensure cost-effectiveness and efficiency in project execution.
6. **Custom Concrete Solutions:** Infra.Market may offer tailored concrete mixes and solutions based on specific project requirements, helping contractors and engineers achieve desired outcomes in terms of strength, setting time, and other critical parameters.
7. **Consultation and Project Support:** Attendees will likely have the chance to engage with Infra.Market experts for consultations on material selection, project planning, and procurement strategies, ensuring they choose the best solutions for their construction needs.



6. ARC Insulation and Insulators:

ARC Insulation and Insulators Limited is likely to offer a range of insulation solutions for the construction industry, focusing on enhancing energy efficiency, building comfort, and sustainability.

1. **Thermal Insulation Solutions:** ARC Insulation specializes in thermal insulation materials that help maintain temperature control in buildings, reducing energy consumption and improving overall efficiency. These products are ideal for use in residential, commercial, and industrial construction, including concrete structures.
2. **Acoustic Insulation:** The company may showcase acoustic insulation materials designed to minimize noise transmission within buildings. These solutions are crucial for improving the comfort and quality of life in residential and commercial environments, especially in urban construction projects.
3. **Moisture and Vapor Barriers:** ARC Insulation might feature moisture and vapor barriers that protect buildings from water infiltration and humidity, helping to preserve the structural integrity of concrete and other building materials. These solutions are particularly important in regions with high humidity or extreme weather conditions.
4. **Fire-Resistant Insulation:** The stall may highlight fire-resistant insulation materials that enhance the fire safety of buildings by slowing the spread of fire and providing additional protection for occupants. These materials are crucial for meeting fire safety standards in construction projects.
5. **Sustainable and Eco-Friendly Products:** With an increasing focus on green building practices, ARC Insulation is expected to present environmentally friendly insulation solutions. These may include materials made from recycled or natural resources, designed to reduce the environmental impact of construction while maintaining high performance.
6. **Pre-Insulated Panels and Pipes:** The company might offer pre-insulated panels and pipes, which are used in HVAC systems, cold storage, and industrial facilities to improve energy efficiency and reduce heat loss. These solutions are vital for modern construction projects that prioritize energy conservation.
7. **Consultation and Custom Solutions:** Attendees can engage with experts from ARC Insulation for customized insulation solutions tailored to specific project needs. Whether it's optimizing energy efficiency in a new building or retrofitting an existing structure, ARC Insulation offers consultation services to help clients choose the best products.
8. **Innovative Insulation Technologies:** The company may introduce attendees to innovative insulation technologies that improve installation processes, enhance material durability, and provide better long-term performance for buildings.



7. Aimil Limited:

Aimil Limited is expected to offer a variety of advanced solutions and equipment tailored to the needs of the construction and infrastructure sectors.

1. **Testing and Measurement Equipment:** Aimil Limited is known for its range of testing instruments used for evaluating construction materials, particularly in the concrete and soil industries. Attendees can explore their offerings in:
 - **Concrete Testing Equipment:** Devices for testing concrete strength, durability, workability, and other critical parameters to ensure high-quality construction.
 - **Soil Testing Equipment:** Instruments for evaluating soil stability, compaction, and moisture content, crucial for foundation engineering and site assessments.
2. **Structural Health Monitoring Systems:** Aimil may showcase its structural health monitoring systems that help assess the condition of buildings, bridges, dams, and other infrastructure. These systems provide real-time data on the performance and health of structures, enabling early detection of potential issues.
3. **Geotechnical Engineering Solutions:** The company is likely to feature its geotechnical engineering instruments, which are used to study subsurface conditions, monitor

ground stability, and assess soil mechanics. These are essential tools for ensuring the safety and stability of large infrastructure projects.

4. **Non-Destructive Testing (NDT) Equipment:** Aimil could offer non-destructive testing equipment designed for evaluating the integrity of structures without causing damage. These technologies are used for checking the quality of concrete and other materials during and after construction, ensuring compliance with industry standards.
5. **Surveying Instruments:** The stall may highlight Aimil's range of surveying instruments, such as total stations, theodolites, and GPS systems, which are used for precise land measurement, layout, and mapping in construction projects.
6. **Material Testing for Roads and Highways:** Aimil Limited is also known for providing solutions in the road and highway construction sectors. They may present their equipment for testing the quality of asphalt, aggregates, and pavement, ensuring the durability and longevity of roads.
7. **Instrumentation and Control Solutions:** The company might display its instrumentation and control systems for monitoring construction processes, helping engineers and contractors maintain quality control and optimize project outcomes.
8. **Consultation and Technical Support:** Aimil Limited offers consultation services and technical support, helping clients choose the right testing and measurement equipment for their specific project needs. They may also provide demonstrations of their equipment to show how it can be integrated into construction workflows.



Day 2

Date: 17/10/2024

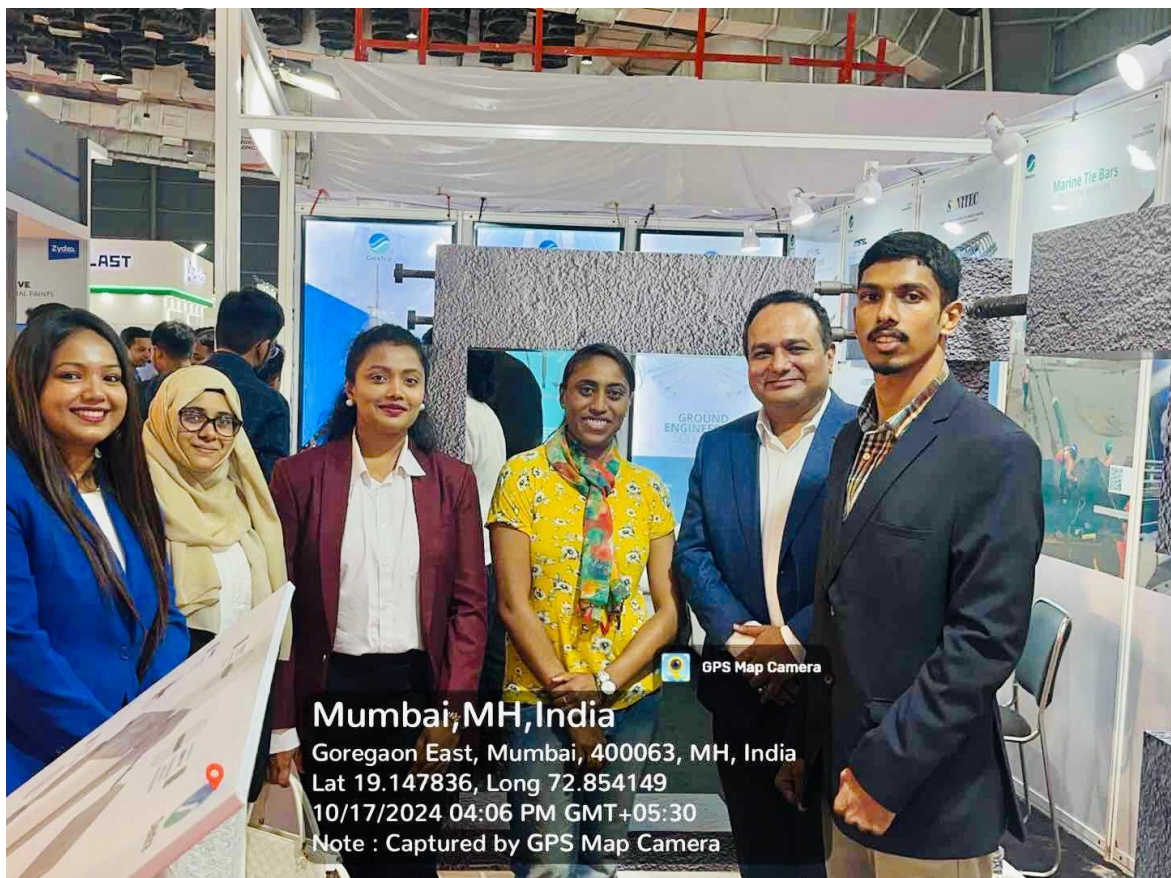
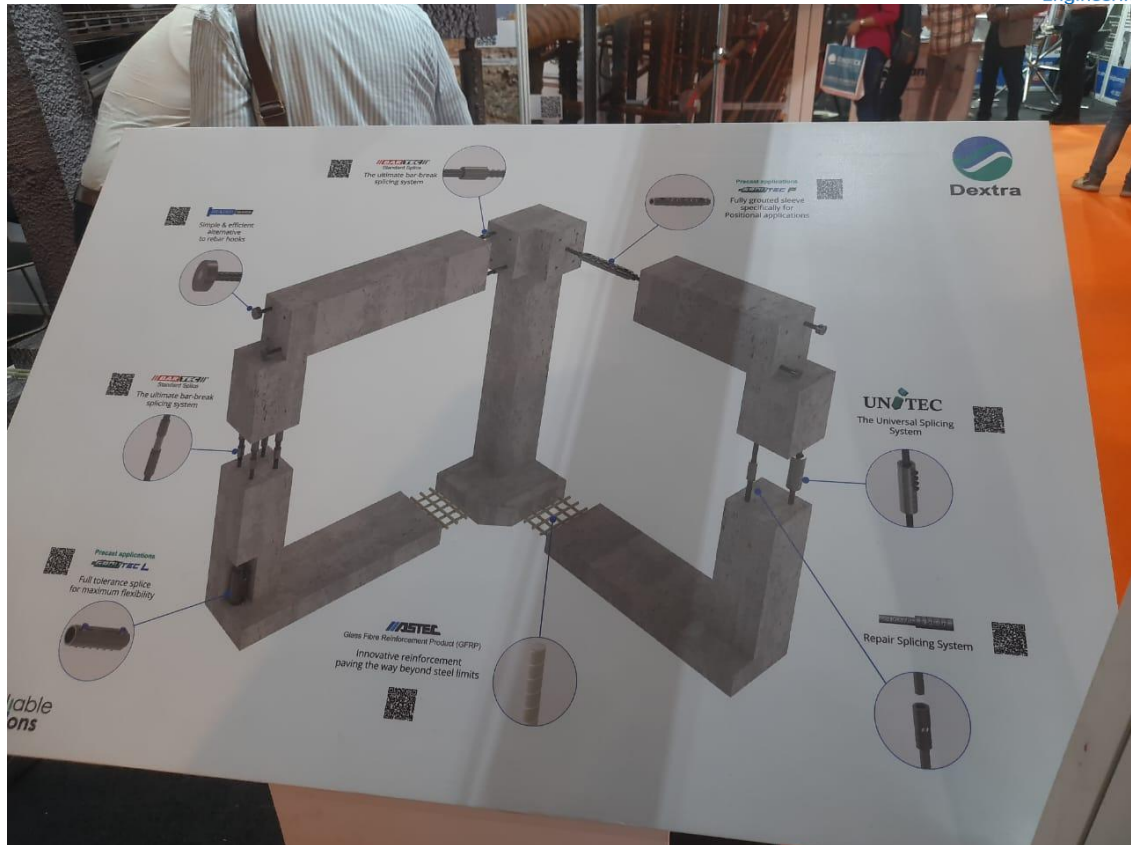
1. Dextra:

Dextra will likely showcase a range of high-performance construction products and solutions designed to enhance the structural integrity and efficiency of concrete construction projects.

1. **Reinforcement Bar Couplers:** Dextra is renowned for its mechanical splicing solutions, particularly reinforcement bar couplers. These couplers allow for quick, safe, and efficient joining of reinforcing bars in concrete structures, offering superior strength and durability compared to traditional overlap methods. This solution is widely used in high-rise buildings, bridges, tunnels, and other critical infrastructure projects.
2. **Post-Tensioning Systems:** Dextra may present its post-tensioning systems, which are used in concrete construction to increase the strength and performance of structures like bridges, slabs, and large industrial floors. These systems help reduce material usage while enhancing load-carrying capacity and durability.
3. **Geotechnical Solutions:** The company also provides a range of geotechnical products, including ground anchors, micropiles, and rock bolts. These solutions are essential for stabilizing soil and rock in civil engineering projects such as tunnels, dams, and retaining walls.
4. **Engineered Construction Accessories:** Dextra offers engineered construction accessories, including:
 - Shear reinforcement systems to improve concrete shear capacity in beams and slabs.
 - Rebar threading machines for precise and fast on-site processing of reinforcement bars.
5. **Glass Fiber Reinforced Polymer (GFRP) Products:** The company might highlight its GFRP bars and systems, which are non-corrosive alternatives to steel reinforcement, ideal for use in harsh environments such as coastal and marine infrastructure, where durability and longevity are critical.
6. **Stay Cable Systems:** Dextra may also feature its expertise in stay cable systems, which are used in cable-stayed bridges. Their systems provide high strength, durability, and resistance to environmental factors, helping to build long-lasting and aesthetically appealing bridges.
7. **Precast Concrete Solutions:** The stall might offer insights into precast concrete reinforcement products, which simplify the construction process and reduce on-site labor by integrating Dextra's solutions into precast elements.

8. **Sustainability and Green Solutions:** With a growing focus on sustainable construction, Dextra could showcase its environmentally friendly solutions, such as high-performance, long-lasting products that reduce material usage, waste, and the carbon footprint of construction projects.
9. **Technical Support and Consultation:** Dextra provides technical consultations to help engineers, architects, and contractors choose the best reinforcement and geotechnical solutions for their specific projects. Attendees may also have the opportunity to discuss project challenges and how Dextra's products can provide efficient and effective solutions.





2. Smart Save

Smart Save is expected to offer attendees a variety of energy-saving and cost-efficient solutions for the construction and infrastructure sectors.

1. **Energy-Efficient Solutions for Construction:** Smart Save specializes in energy-saving products and technologies designed to reduce power consumption in construction projects. This may include solutions that optimize energy use in construction processes, machinery, and building systems, helping companies cut down on operational costs.
2. **Building Automation and Smart Technologies:** The stall might feature smart building solutions, such as automated control systems for lighting, HVAC (Heating, Ventilation, and Air Conditioning), and energy monitoring. These technologies are designed to make buildings more energy-efficient and sustainable while providing real-time data to optimize energy use.
3. **Sustainable Construction Materials:** Smart Save could present sustainable building materials that offer thermal insulation, energy conservation, and longer lifecycle benefits. These materials help reduce energy costs while enhancing the environmental performance of buildings.
4. **LED Lighting Solutions:** Attendees can expect to see energy-efficient LED lighting solutions for construction sites, commercial buildings, and infrastructure projects. LED lighting systems offer lower energy consumption, longer life spans, and improved performance compared to traditional lighting options.
5. **Solar Power Solutions:** Smart Save might also showcase solar energy systems designed for construction sites or building integration. These solutions can help reduce dependency on conventional energy sources, offering a sustainable and cost-effective alternative for powering construction operations or building systems.
6. **Energy Monitoring and Management Systems:** The stall could feature advanced energy monitoring systems that allow construction professionals to track and manage energy use across projects, helping to identify areas of energy waste and optimize performance. These systems provide data and insights that lead to more sustainable practices and reduced costs.
7. **Green Building Solutions:** Smart Save is likely to highlight green building technologies, such as products and systems that reduce the environmental footprint of construction projects. This could include materials and designs that meet green building certifications, like LEED (Leadership in Energy and Environmental Design), contributing to sustainable construction practices.
8. **Consultation and Custom Solutions:** Smart Save may offer consultations on energy optimization and how their products can be integrated into specific projects to reduce energy costs, enhance building performance, and meet sustainability goals.



3. Ridhi Enterprises

Ridhi Enterprises is expected to offer a range of construction materials and industrial products tailored to the concrete and infrastructure sectors. Here's what attendees can expect from their stall:

1. **Industrial Equipment and Tools:** Ridhi Enterprises specializes in providing high-quality industrial tools and equipment that are essential for construction projects. These may include power tools, hand tools, and specialized equipment for working with concrete, such as concrete mixers, vibrators, and cutting tools.
2. **Concrete Admixtures:** The company may showcase a variety of admixtures designed to improve the performance of concrete. These can include plasticizers, superplasticizers, accelerators, and retarders to enhance workability, strength, and durability of concrete used in construction.
3. **Construction Chemicals:** Attendees can expect to see construction chemicals offered by Ridhi Enterprises, such as bonding agents, waterproofing compounds, and curing agents. These chemicals are used to protect concrete from environmental factors, improve its longevity, and enhance the quality of construction.

4. **Formwork and Scaffolding Systems:** Ridhi Enterprises may present their range of formwork and scaffolding solutions, which are critical for supporting and shaping concrete structures during the construction process. These systems are designed to improve safety, efficiency, and precision in concrete works.
5. **Building Materials:** The stall is likely to feature a variety of building materials, including high-quality cement, aggregates, and other products essential for constructing durable concrete structures.
6. **Surface Treatment Products:** Ridhi Enterprises could offer surface treatment solutions, such as sealers and coatings, to protect concrete surfaces from wear, weathering, and chemical exposure, thereby extending the life of the structures.
7. **Customized Solutions for Contractors:** The company may also provide customized solutions for contractors and construction professionals, tailoring their products and services to meet specific project requirements, whether for residential, commercial, or infrastructure developments.
8. **Technical Support and Consultation:** Attendees will likely have the opportunity to engage with Ridhi Enterprises' experts for technical consultations on selecting the right materials and tools for their specific projects, ensuring optimal performance and cost-effectiveness.



4. Urban Terrazzo

Urban Terrazzo is likely to offer attendees a range of innovative terrazzo flooring solutions designed to enhance the aesthetic and functional qualities of modern construction projects.

1. **Terrazzo Flooring Solutions:** Urban Terrazzo specializes in high-quality terrazzo flooring, which is known for its durability, versatility, and aesthetic appeal. They may showcase various terrazzo designs and finishes that can be customized to fit both commercial and residential spaces, including office buildings, hotels, and luxury residences.
2. **Eco-Friendly and Sustainable Products:** Urban Terrazzo could highlight their focus on sustainable building materials by offering eco-friendly terrazzo options, which use recycled aggregates like glass, marble, and other materials to create stunning, environmentally friendly flooring solutions.
3. **Customizable Designs:** The company may present its ability to provide custom terrazzo designs, allowing architects, designers, and developers to choose from a wide range of colors, patterns, and finishes to suit specific project themes and aesthetics.
4. **Precast Terrazzo Solutions:** Urban Terrazzo might feature precast terrazzo products, such as tiles and slabs, that are ready for quick installation. These precast options are ideal for speeding up construction timelines while ensuring consistent quality and design.
5. **Durability and Low Maintenance Benefits:** Terrazzo is known for its long-lasting, low-maintenance properties. Attendees will likely learn about how Urban Terrazzo's products provide high durability and are easy to maintain, making them a cost-effective solution for high-traffic areas like airports, malls, and public buildings.
6. **Innovative Installation Techniques:** Urban Terrazzo may showcase advanced installation techniques that make the terrazzo flooring process faster and more efficient. This includes the use of specialized tools and methods to ensure smooth, even finishes.
7. **Interior and Exterior Applications:** The company is likely to highlight how their terrazzo solutions can be used both for interior flooring as well as exterior spaces, providing versatility in design for courtyards, walkways, and outdoor areas.
8. **Consultation and Design Services:** Urban Terrazzo may offer consultation services to help designers and contractors choose the right materials, designs, and installation methods for their specific projects. Their experts can assist with customizing terrazzo solutions that match the overall aesthetic and performance goals of a building.



5. Cretebots Digital Construction Private Limited:

Cretebots Digital Construction Private Limited is expected to offer cutting-edge digital solutions aimed at transforming traditional construction processes.

1. **Digital Construction Management Platforms:** Cretebots specializes in construction management software that helps streamline project planning, execution, and monitoring. Attendees can learn about their platforms that offer real-time project tracking, team collaboration, resource management, and workflow automation, improving overall efficiency.
2. **Concrete 3D Printing Solutions:** Cretebots is likely to feature their expertise in 3D printing for concrete structures, which allows for faster, more efficient construction with less material waste. This technology can be used to create complex structures, prefabricated components, and even entire buildings.
3. **Building Information Modeling (BIM) Solutions:** Cretebots may present their BIM services, which are essential for integrating various aspects of construction projects, such as design, planning, and execution, into a single digital model. BIM enables better coordination between architects, engineers, and contractors, reducing errors and improving project outcomes.

4. **Construction Automation Technologies:** The company may showcase automated construction technologies, such as robots and AI-driven systems that can perform repetitive tasks, monitor quality, and ensure precision in concrete pouring and other construction activities. These technologies improve safety, speed, and quality on construction sites.
5. **AI and Data Analytics for Construction:** Cretebots offers AI-powered tools and data analytics platforms that help construction professionals analyze data from various sources, predict potential project risks, and optimize performance. This includes predictive maintenance for equipment, cost estimation, and identifying bottlenecks in the construction process.
6. **Drone and Remote Sensing Technology:** The stall might feature drone technology for site surveying and remote monitoring. Drones equipped with cameras and sensors provide high-accuracy data and visuals for site inspections, mapping, and progress tracking, reducing the need for manual labor in hazardous conditions.
7. **Virtual Reality (VR) and Augmented Reality (AR) Solutions:** Cretebots could demonstrate VR and AR tools that help construction teams visualize projects in 3D before they're built, allowing for better planning and design adjustments. These tools enhance decision-making by giving stakeholders a virtual tour of the project's final appearance and performance.
8. **Construction Site Safety Solutions:** With a focus on improving safety, Cretebots may offer digital safety management tools that monitor construction sites for compliance, track safety incidents, and help implement preventive measures through real-time data analysis.
9. **Sustainable Construction Technologies:** Cretebots might also showcase their efforts to support sustainable construction by integrating energy-efficient systems, optimizing material use, and reducing waste through smart technology, contributing to environmentally friendly building practices.
10. **Consultation and Implementation Support:** Attendees can expect consultation services from Cretebots experts, who will help them understand how digital tools and automated systems can be integrated into their construction projects, offering customized solutions based on project size, type, and goals.



6. The Global Elephant:

The Global Elephant is expected to offer a range of innovative concrete solutions designed to elevate the aesthetic, sustainability, and functionality of construction projects. Here's what attendees can expect from their stall:

1. **Decorative Concrete Products:** The Global Elephant is known for offering decorative concrete solutions that include custom finishes such as stamped concrete, polished surfaces, and unique textures. These products are used to enhance the appearance of both interior and exterior spaces, adding design flexibility to projects like plazas, pathways, and commercial buildings.
2. **Custom Architectural Concrete Elements:** Attendees can explore a selection of custom concrete elements, such as furniture, sculptures, and functional architectural features. These products combine artistry with durable construction, making them ideal for both public and private projects that demand high aesthetic value.
3. **Eco-Friendly and Sustainable Concrete:** The company may showcase their eco-friendly concrete products, which are made using sustainable practices and materials. These offerings include recycled materials, low-carbon concrete mixes, and green building solutions aimed at reducing the environmental impact of construction.
4. **Concrete Molding and Precast Products:** The Global Elephant likely offers precast concrete solutions and custom molds that are designed for creating intricate and

artistic concrete features. These molds are perfect for developing unique facades, decorative panels, and custom architectural elements for large-scale projects.

5. **Innovative Surface Treatments:** They may demonstrate their expertise in concrete surface treatments, including staining, sealing, and polishing. These treatments protect concrete while enhancing its durability and visual appeal, making them suitable for high-traffic areas such as commercial complexes and public spaces.
6. **Sculptural and Artistic Concrete Work:** The Global Elephant often emphasizes its artistic approach to concrete, showcasing handcrafted sculptures, fountains, and ornamental features that blend modern design with traditional craftsmanship. These pieces are used in urban landscaping, parks, and building exteriors.
7. **Consultation and Design Services:** The company will likely offer design and consultation services to architects, builders, and designers. Their team can provide guidance on how to integrate decorative or functional concrete elements into a project, offering custom solutions tailored to specific needs.
8. **Sustainable Building Solutions:** With the growing importance of sustainable construction, The Global Elephant may also highlight their contributions to green building, focusing on solutions that reduce environmental impact and improve energy efficiency through smart material choices and innovative techniques.



Detailed Report on the Annual General Meeting (AGM) of ASCE-IS 2024

Date: 18th October 2024

Time: 11:00 AM – 2:00 PM

Venue: Board Room, Hall No. 4, Goregaon Exhibition Centre, Goregaon East, Mumbai

1. Introduction

The Annual General Meeting (AGM) of the **American Society of Civil Engineers – India Section (ASCE-IS)** for the year 2024 was successfully conducted on the 18th of October, 2024, at the prestigious Bombay Exhibition Centre in Mumbai. The AGM coincided with the **World of Concrete India 2024**, an international exhibition showcasing advancements in concrete and masonry, where ASCE-IS was an associate partner.

This significant event brought together **over 200 exhibitors and 12,000+ trade visitors**, including civil engineering professionals, policymakers, decision-makers, and technical experts from across the globe. It served as a platform for industry professionals to exchange ideas, share technological innovations, and engage in discussions that shape the future of the construction sector with a focus on sustainability and eco-friendly solutions.

The AGM was an essential event in the ASCE-IS calendar, as it offered an opportunity for the members of the organization to reflect on the progress made over the past year, review the financial and administrative status, and strategize for the future. The meeting also provided a forum for student chapters to present their achievements and share insights gained from various initiatives undertaken throughout the year. The discussions during the AGM were geared toward addressing pressing issues related to civil engineering, sustainability, and ethical practices, as well as fostering greater collaboration among student chapters and industry experts.

The meeting commenced at 11:00 AM and continued until 2:00 PM, with a packed agenda that covered all essential topics. The event was presided over by **Er. Ravindra J Ringshia**, President of ASCE-WR, and was well-attended by prominent board members, faculty members, and student representatives from across the country. It was an opportunity for the ASCE-IS community to come together, exchange ideas, and chart a roadmap for the future of the civil engineering profession.

2. Attendees:

The AGM was graced by several notable attendees, including senior members of ASCE-IS and esteemed professionals from the civil engineering industry. Some of the key attendees were:

- **Er. Ravindra J Ringshia**, President of ASCE-IS Western Region.

- **Er. Tejas Sura**, Managing Director @ Cubic Turnkey Private Limited | Project Management Consultant | Structural Engineer | Business Growth Advisor | Speaker Cubic Turnkey Private Limited, University of Texas at Austin a key member of the ASCE-IS board
- **Er. Hithen**, a dedicated contributor to ASCE-IS initiatives
- **Er. Tanmay Raje**, Treasurer of ASCE-IS
- **Ms. Neha Mor**, Manager, ASCE-IS
- **Er. Yaseer Fatehi**, Secretary of ASCE-IS
- **Dr. Deepanjona Maulik**, an Environmental Engineer from West Bengal
- **Er. Chetan Raikar**, a distinguished figure in the civil engineering community

Representatives from various student chapters, including faculty and student delegates from **Malnad College of Engineering, Hassan (MCE)**, were also present. Their participation in the AGM highlighted the importance of student involvement in the future of the civil engineering profession and provided an excellent opportunity for them to showcase their contributions to the field.

3. Agenda of the AGM

The AGM followed a structured agenda, which was meticulously planned to cover all essential aspects of ASCE-IS's activities. The key agenda items for the meeting were as follows:

- **Approval of the Minutes of the Previous AGM:** The minutes of the previous AGM, held on 28th September 2023, were reviewed and approved by the attendees.
- **Administrative Issues:** The board discussed various administrative matters that required attention, including:
 - Review of ongoing and new initiatives by ASCE-IS.
 - Appointment of working groups to tackle specific challenges and drive innovation in civil engineering.
- **Financial Matters:** The financial status of ASCE-IS was reviewed, and the following points were discussed:
 - **Non-submission of previous years' account statements** by former officers of certain ASCE-IS regions was noted.
 - The **approval of the financial accounts** for the year 2023-2024 was granted by the members.
 - **Appointment of auditors** for the fiscal year 2024-2025 was finalized to ensure transparency and accountability in financial reporting.
- **Student Chapter Activities:** An important focus of the meeting was the activities of student chapters across India. All student chapters were encouraged to submit their annual

reports by 2nd October 2024, to be included in the AGM. Student chapters were also urged to prepare and deliver 3-5 minute presentations during the meeting to showcase their achievements.

- **Future Activities:** Members were invited to propose ideas for future activities, events, and initiatives that could enhance the outreach and impact of ASCE-IS. The board expressed its willingness to provide support and assistance to these initiatives.

4. Student Chapter Presentations

A significant portion of the AGM was dedicated to presentations by ASCE-IS student chapters, which are considered the backbone of the organization's future. These presentations highlighted the activities, achievements, and future goals of each chapter, showcasing the enthusiasm and creativity of the next generation of civil engineers.

The **student chapter of Malnad College of Engineering, Hassan (MCE)** was one of the prominent contributors to the AGM. The MCE delegation, consisting of faculty advisors Mrs. Brunda B. N. and Mrs. Rashmi B. R. and student leaders President Mr. Rumaan Sharief N. and Co-President Ms. Samar Firdose, delivered a comprehensive presentation that covered chapter's activities over the past year. Their report emphasized the following areas:

- **Workshops and Seminars:** The MCE chapter organized workshops and seminars focused on emerging trends in civil engineering, including structural analysis, sustainable construction practices, and the use of modern engineering tools and software. These workshops provided students with valuable hands-on experience and exposure to cutting-edge technologies.

- **Industrial Collaborations:** The chapter also collaborated with industry professionals to facilitate **industrial visits** and **collaborative projects**. These initiatives enabled students to gain practical insights into the workings of large-scale infrastructure projects and provided opportunities for them to contribute to real-world engineering challenges.

- **Community Outreach Programs:** The MCE chapter played an active role in promoting civil engineering awareness in the local community. Through outreach programs, the chapter aimed to inspire young minds to pursue careers in civil engineering and contribute to the development of sustainable infrastructure.

- **Student Competitions:** The chapter highlighted the achievements of its members in various national and international civil engineering competitions. The participation of MCE students in these events demonstrated their technical proficiency and innovative thinking, bringing recognition to the chapter on a broader platform.

The MCE chapter's presentation was well-received by the board, and their proactive approach to addressing current civil engineering challenges was praised. The insights gained from the presentation will help guide future projects and activities, ensuring that the chapter continues to make meaningful contributions to the profession.

5. Expert Insights and Discussions

Following the student presentations, the AGM transitioned into an insightful discussion led by some of the most experienced and knowledgeable members of the civil engineering community. These discussions focused on the current trends and future directions of the profession, with a particular emphasis on sustainability, innovation, and ethical practices.

Key insights shared by industry experts included:

- **Nature-Based Solutions (NBS):** **Er. Chetan Raikar** emphasized the growing importance of nature-based solutions in the design and implementation of infrastructure projects. He explained how civil engineers can leverage natural processes to address challenges such as water management, erosion control, and environmental degradation. By incorporating NBS into their projects, engineers can create more resilient and sustainable infrastructure that adapts to changing environmental conditions.
- **Circular Economy in Construction:** **Dr. Deepanjona Maulik**, a noted Environmental Engineer, provided a thought-provoking address on the role of the **circular economy** in the construction sector. She discussed how traditional construction practices often result in significant waste generation and resource depletion. In contrast, the circular economy model promotes the reuse and recycling of materials, minimizing waste and reducing the environmental footprint of construction activities. Dr. Maulik encouraged civil engineers to adopt circular economy principles in their work, especially when dealing with large-scale infrastructure projects.
- **Use of Plastics in Civil Engineering:** **Er. Ravindrra J Ringshia** highlighted the potential for the use of **recycled plastics** in civil engineering projects. He explained that plastics, when used appropriately, can provide a cost-effective and environmentally friendly alternative to traditional materials. The incorporation of recycled plastics into road construction, building materials, and other infrastructure projects can significantly reduce the environmental impact of construction while offering technical benefits.
- **Hydrogen in Steel Production:** One of the more forward-looking discussions revolved around the use of **hydrogen** as a cleaner energy source in the steel industry. Experts pointed out that traditional steel production methods, particularly the use of blast furnaces, contribute to a large portion of industrial carbon emissions. The adoption of hydrogen as a replacement for carbon in the steel production process has the potential to drastically reduce emissions and improve the sustainability of the industry. The role of civil engineers in promoting the use of such innovative technologies was emphasized as a key factor in achieving global climate goals.

6. Promotion of Universal Human Values (UHV)

A recurring theme during the AGM was the promotion of **Universal Human Values (UHV)** within the civil engineering profession. **Er. Ravindrra J Ringshia** and other board members stressed the importance of incorporating ethical practices, human-centric approaches, and socially responsible decision-making into the work of civil engineers. The ASCE-IS leadership encouraged student chapters to familiarize themselves with ASCE's documentation on UHV and to integrate these values into their projects and initiatives.

The commitment to UHV ensures that civil engineering projects not only meet technical standards but also contribute to the well-being of society as a whole. By adhering to these values, civil engineers can play a pivotal role in creating a more equitable and sustainable future.

The AGM of ASCE-IS 2024 concluded at 2:00 PM, following an engaging and productive session that addressed a wide range of topics crucial to the future of civil engineering. The meeting reinforced ASCE-IS's commitment to fostering innovation, sustainability, and ethical practices within the civil engineering profession.

The student chapter from **Malnad College of Engineering, Hassan** left the AGM with a renewed sense of purpose and motivation to continue contributing to the advancement of civil engineering through collaborative projects, research, and community engagement.

The insights gained from the AGM will be instrumental in shaping the activities of ASCE-IS in the coming year, and we look forward to participating in further initiatives that promote the growth and development of the profession.









1. Recron 3s



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- Reliance Industries Limited brings your Recron 3s.
- The new generation fibre used in a variety of significant industrial applications such as paper, asbestos cement products, construction and lead acid battery.
- **Applications**
 - Shotcrete
 - Hard standings
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- ECMAS provide the market with products and services, we innovate for our customers to improve their process, their end product, and often, their bottom line.
- The power of ECMAS is that it can combine knowledge with technical expertise and, ultimately partner with our customers to create value through innovation and technology.

