

# Tech Mahindra Inks MoU with IIT Bombay to Build 3D Digital Twin to Enable Smart Infrastructure

*Technology*

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**Mumbai – March 26, 2026:** [Tech Mahindra](#) (NSE: TECHM), a leading global provider of technology consulting and digital solutions to enterprises across industries, announced the signing of a Memorandum of Understanding (MoU) with the Indian Institute of Technology, Bombay, to develop a 3D Digital Twin of the institute's Gymkhana building. The collaboration seeks to develop a comprehensive digital replica of the facility, showcasing how immersive digital technologies can enable smart infrastructure and drive campus innovation.

The collaboration will leverage advanced 3D modeling and rendering technologies, Digital Twin frameworks, Building Information Modeling (BIM) integration, spatial data integration, and a cloud-based visualization platform to build an immersive, web-based interface of the Gymkhana building. The solution will enable enhanced visualization of infrastructure assets while laying the foundation for future monitoring, real-time tracking, predictive maintenance, simulation, and smart campus initiatives. By enabling a virtual representation of physical infrastructure, the Digital Twin will allow stakeholders to explore new possibilities for infrastructure management, such as real-time integration of Internet of Things (IoT) devices, advanced analytics for operational optimization, and scalable smart campus

development through automated decision-making and resource allocation.

**Birendra Sen, President – Business Process Services, Tech Mahindra,** said, *“Organizations are increasingly turning to digital replicas to visualize, manage, and optimize infrastructure more effectively. By enabling real-time, data-driven insights, these solutions help campuses and public infrastructure environments overcome planning and monitoring challenges. Our collaboration with IIT Bombay combines academic research and enterprise technology to develop a scalable 3D Digital Twin of the Gymkhana building, highlighting how immersive technologies directly enable smarter infrastructure management and lay the groundwork for future smart campus innovation.”*

The collaboration also demonstrates how immersive digital technologies extend beyond industrial applications and translate effectively into academic settings. As a practical deployment of Digital Twin technology on a university campus, the initiative underscores the value of digital replicas for infrastructure visualization and for building adaptable, smart infrastructure systems. Through this collaboration, Tech Mahindra seeks to enhance its leadership in the advancing Digital Twin and spatial computing landscape and create a benchmark reference model replicable across other smart campuses and public infrastructure efforts.

**Prof. RAAJ Ramsankaran, Professor and GISE Hub Co-PI, IIT Bombay,** said, *“The MoU with Tech Mahindra marks a significant step in strengthening industry–academia collaboration. The creation of a 3D digital twin of the IIT Gymkhana building will offer our faculty and students a valuable platform to explore practical applications of digital twin technologies in areas such as infrastructure planning, visualization, and smart campus initiatives. We look forward to working closely with Tech Mahindra to advance applied research and experiential learning.”*

The initiative demonstrates Tech Mahindra's ongoing drive for innovation, digital transformation, and development of advanced immersive technology solutions. Tech Mahindra Business Process Services leads in future-ready technologies, operating over 55 delivery centers across 15 countries and delivering services in 50+ languages to more than 270 global clients.

### **About IIT Bombay**

The Indian Institute of Technology Bombay (IIT Bombay) is a premier public research university in Mumbai, India, established in 1958, known for its academic excellence and significant contributions to technology and research. The institute places strong emphasis on research and innovation, with numerous research centers and collaborations with industries. IIT Bombay has unveiled a strategic plan focusing on advancing research in key areas such as artificial intelligence, machine learning, and climate technologies.

### **About Tech Mahindra**

Tech Mahindra (NSE: TECHM) offers technology consulting and digital solutions to global enterprises across industries, enabling transformative scale at unparalleled speed. With 149,000+ professionals across 90+ countries helping 1100+ clients, Tech Mahindra provides a full spectrum of services including consulting, information technology, enterprise applications, business process services, engineering services, network services, customer experience & design, AI & analytics, and cloud & infrastructure services. It is the first Indian company in the world to have been awarded the Sustainable Markets Initiative's Terra Carta Seal, which recognizes global companies that are actively leading the charge to create a climate and nature-positive future. Tech Mahindra is part of the Mahindra Group, founded in 1945, one of the largest and most admired multinational federation of companies. For more information on how TechM can partner

with you to meet your Scale at Speed™ imperatives, please visit

<https://www.techmahindra.com>

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