



# भारतीय प्रौद्योगिकी संस्थान मुंबई

## INDIAN INSTITUTE OF TECHNOLOGY BOMBAY

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**FOR IMMEDIATE RELEASE**

### IIT Bombay Inaugurates 3D-Printed Security Cabin on Campus

**Mumbai | January 5, 2026:** Prof. Shireesh Kedare, Director, IIT Bombay inaugurated a state-of-the-art 3D-printed concrete security cabin, marking a significant milestone in sustainable construction and advanced manufacturing technologies in India on 5th January, 2026. The structure was unveiled in the presence of Institute functionaries, faculty members, researchers and students from the Department of Civil Engineering.

“This innovative cabin, designed and fabricated entirely using 3D concrete printing technology, demonstrates the Institute’s commitment to leveraging cutting-edge research for real-world infrastructure solutions. The project showcases the integration of digital fabrication, sustainable materials and automated construction methods, enabling rapid, cost-effective and environmentally-conscious building solutions,” said Prof. Kedare.

Developed jointly by the Department of Civil Engineering and the IIT Bombay 3D Concrete Printing Lab, the cabin was printed using a customized concrete mixture that was developed in-house, that ensures high durability and structural performance while minimizing material wastage. From concrete mixture development, parametric design, structural design to execution, the entire project was driven by the students of IIT Bombay. The printing process was completed in less than 30 hours, illustrating the potential of additive manufacturing to revolutionize small-to-medium scale infrastructure on campuses, industrial facilities, and urban and rural sites.

Prof Ravi Gudi, Deputy Director (FIA), highlighted that this 3D concrete printer was procured through the Institute of Eminence (IoE) Funds and is helping both internal and external users print structures that are not only aesthetically pleasing but also have excellent thermal comfort. The printed security cabin will now serve as a functional unit at Hostel 10, providing both a demonstration platform for future research and a tangible example of India’s progress toward automated, sustainable construction technologies.

Prof. Najeeb Shariff, Professor-in-Charge of the project said, “This project represents IIT Bombay’s efforts to translate research into practical innovations that redefine conventional construction practices. 3D concrete printing holds immense promise for rapid construction of houses, infrastructure and post-disaster re-development across India”.

#### **About IIT Bombay**

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The Indian Institute of Technology Bombay, set up in 1958 as the second IIT, is recognised worldwide as a leader in the field of science and engineering education and research. The Institute was granted the status of 'Institution of Eminence' by the Ministry of Education (the then Ministry of Human Resources Development) on July 9, 2018. IIT Bombay is reputed for the quality of its faculty, cutting-edge research, industry relations, and the outstanding caliber of students graduating from its undergraduate and postgraduate programmes. The Institute has 17 academic departments, 64 other academic entities (Centres/ Programmes/ Academic facilities/ Hubs/ Externally funded centres and Labs), and three schools. Over the last six decades, more than 75,000 engineers and scientists have graduated from the Institute. It is served by 756 faculty members, with 121 women faculty, and about 150 visiting and part-time faculty, considered not only amongst the best within the country but also highly recognised in the world for achievements in the field of education and research. On June 19, 2025, IIT Bombay was ranked 2nd in India and 129th in the world in the Quacquarelli Symonds (QS) World University Rankings for 2026.

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