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PARAM Rudra Supercomputer Inaugurated At IIT Bombay

Mumbai | January 8, 2026: Prof. Abhay Karandikar, Secretary, Department of Science & Technology (DST), Government of India inaugurated a state-of-the-art supercomputing facility, PARAM Rudra, established by the Centre for Development of Advanced Computing (C-DAC) at IIT Bombay today.

The 3 Peta FLOPS high-performance computing (HPC) system has been developed and deployed under the Build Approach of the National Supercomputing Mission (NSM). PARAM Rudra is based on indigenously designed Rudra servers developed by C-DAC and manufactured in India, reinforcing the Government of India's Make-in-India initiative. The system is powered by C-DAC's indigenous software stack and incorporates advanced Direct Contact Liquid Cooling (DCLC) technology for enhanced efficiency.

In his address, Prof. Abhay Karandikar highlighted that the PARAM Rudra facility will significantly strengthen computational research, benefiting over 200 faculty members and 1,200 students at IIT Bombay, as well as researchers nationwide. He noted that the facility will catalyse innovation in areas such as Artificial Intelligence, Biotechnology and Advanced Manufacturing, while also supporting startups and industry-driven research.

Ms. Sunita Verma, Group Coordinator, Ministry of Electronics and Information Technology (MeitY) emphasised that the Rudra-based cluster marks a major milestone in India's indigenous supercomputing journey and underlined the importance of sustained investments in HPC systems, software, microprocessors and networking to advance towards exascale computing

Dr. Hemant Darbari, NSM Mission Director stated that with this addition, 38 supercomputers with a cumulative capacity of 44 Peta FLOPS have been commissioned across the country under NSM. He

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also mentioned that PARAM Rudra facility at IIT Bombay will also augment research prospects of several institutions in and around Mumbai and help in collaboration and scientific outcomes.

The National Supercomputing Mission is jointly steered by MeitY and DST with C-DAC and IISc Bengaluru as the implementing agencies. The mission focuses on building a comprehensive indigenous supercomputing ecosystem through its four pillars: Supercomputing Infrastructure, Applications Development, Research & Development and Human Resource Development.

About IIT Bombay

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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