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SRM University-AP establishes India's first Quantum Reference Facility for healthcare research

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Ambitious initiative has been realised in under eight months from conceptualisation to commissioning



On World Quantum Day on April 14, SRM University-AP etched its name in history by becoming India's first and only university to establish a Quantum Reference Facility (QRF), boldly stepping into the next frontier of technology and innovation.

In a landmark moment, the QRF was ceremonially inaugurated by the Chief Minister of Andhra Pradesh, N. Chandrababu Naidu, marking not just an institutional achievement but a defining chapter in India's quantum future.

Chandrababu Naidu proclaimed, "Quantum is not any other Technology. It is the mother of all frontier technologies. Quantum will define the future of computing. India has always had the talent and ambition—but lacked access to real quantum hardware. With the Amaravati Quantum Reference Facility, that gap is now decisively bridged."

This ambitious initiative has been realised in under eight months from conceptualisation to commissioning, and the facility is a fully instrumented hardware testbed enabling real-time validation, benchmarking, and certification of quantum technologies under operational conditions, and can test up to 100 Qubit quantum processes.

The facility is developed in partnership with seven organisations as part of the Amaravati Quantum Valley Project, establishing a broader dual-system architecture, Amaravati 1S at SRM University-AP and Amaravati 1Q at Medha Towers.

Prof. Ajay Kumar Sood appreciated the action-oriented approach of the Andhra Pradesh (AP) government in shaping the various elements that laid the foundation for the Quantum framework and pillars for self-reliance in quantum technologies. He further commented that Quantum Technology will offer transformative solutions in various domains such as Drug Discovery, Healthcare, Cryptography, Cybersecurity, Artificial Intelligence (AI), Machine Learning, Optimisation Problems, Quantum Radar and Sensing, among others.