Ministry of Electronics & IT

BISAG-N and QNu Labs Sign MoU for collaboration and technology transfer to Strengthen India's Quantum-Resilient Cybersecurity Capabilities

Posted On: 28 JAN 2026 7:46PM by PIB Delhi

The Bhaskaracharya National Institute for Space Applications and Geo-informatics (BISAG-N), under the Ministry of Electronics and Information Technology (MeitY), today signed a Memorandum of Understanding (MoU) with QNu Labs Pvt. Ltd. to collaborate in the area of quantum-resilient cybersecurity solutions.

The MoU was signed in the presence of Shri Jitin Prasada, Union Minister of State for Commerce & Industry and Electronics & Information Technology,Shri S. Krishnan, Secretary, Ministry of Electronics and Information Technology, senior officials from MeitY, and leadership teams from BISAG-N and QNu Labs.

As advancements in quantum computing continue globally, the need to prepare digital infrastructure against future cybersecurity risks has gained strategic importance. This collaboration aims to strengthen India's preparedness by advancing indigenous, quantum-safe cybersecurity capabilities, aligned with national priorities.

Under this partnership, BISAG-N's indigenous cryptographic software capabilities, including "Vedic Kavach," will be integrated with quantum hardware and secure infrastructure platforms provided by QNu Labs. BISAG-N has developed Vedic Kavach and has undertaken one of the early government-led implementations in India covering quantum-resilient web servers and an indigenous secure web browser, integrated with Quantum Random Number Generation (QRNG).

The MoU establishes a structured framework for technology transfer, integration, and deployment, enabling the development of hardware-backed, quantum-resilient cybersecurity solutions for use across government systems, defence networks, critical infrastructure, and public sector platforms, in accordance with applicable policies.

Speaking on the occasion, Shri Jitin Prasada, Union Minister of State for Commerce & Industry and Electronics & Information Technology stated:

"India is building digital technologies not only for today, but for the next generation. As digital systems become more pervasive, it is essential that they remain secure for decades to come."

Secretary Shri S. Krishnan, MeitY, highlighted:

"As India's digital ecosystem expands across sectors such as finance, governance, and citizen-centric services, ensuring long-term security of data and digital transactions has become a critical priority. The adoption of quantum-resilient cybersecurity technologies is the need of the hour to safeguard sensitive information and maintain trust in digital systems."

Commenting on the collaboration, the Chief Growth Officer, QNu Labs Pvt. Ltd., stated:

"QNu Labs has followed an India-first and country-centric approach to technology development from its inception. This collaboration with BISAG-N represents a strategic step towards building indigenous quantum-resilient cybersecurity capabilities, ensuring that India stays ahead of emerging global security challenges. By combining government-developed indigenous software with Indian-designed quantum hardware, we are strengthening national digital security in a self-reliant and forward-looking manner, aligned with India's long-term strategic interests."

Senior officials highlighted that the collaboration reflects the importance of government–industry partnerships in addressing emerging technology challenges and enabling the transition from research to practical deployment.

The collaboration also provides a framework for future technology-related development in the domain of quantum-resilient cybersecurity, aligned with evolving national requirements and emerging security challenges.

The MoU is aligned with the objectives of the National Quantum Mission, Digital India, Atmanirbhar Bharat, and the long-term vision of Viksit Bharat @2047, reinforcing India's commitment to secure, trusted, and future-ready digital infrastructure.

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