

# Third International Quantum Communication Conclave

## Department of Telecommunications (DoT) has released standards through Telecommunication Engineering Centre for quantum-secure products and solutions

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The documents that were unveiled during the 3<sup>rd</sup> International Quantum Communication Conclave held on 25<sup>th</sup> April 2025 with an objective to standardise, create awareness and promote adoption of quantum-secure technologies in India are as under:

- i. Standard for Quantum Random Number Generator (QRNG).
- ii. Technical Report on Migration to Post Quantum Cryptography (PQC).
- iii. Technical Report on Quantum Secure 5G / beyond 5G Core using Post Quantum Cryptography (PQC).

In addition to the above, Telecommunication Engineering Centre (TEC) has released the following standards for quantum secure communications:

1. Standard for Quantum Key Distribution (QKD) System. Standard for Quantum Safe and Classical Cryptographic Systems.

All above standards and technical reports have been formulated in consultation with stakeholders including Centre for Development of Telematics (C-DOT).

The Department of Telecommunications (DoT) has released standards through TEC for quantum-secure products and solutions as mentioned in para (a) & (b) above and issued Test Guide on Quantum Key Distribution System to support testing of quantum secure products. Further, DoT has formed a National Working Group on Quantum Technology (NWG-QT) to foster collaboration among experts from academia, industry, and government.

This information was given by the Minister of State for Communications and Rural Development, Dr. Pemmasani Chandra Sekhar in a written reply to a question in Lok Sabha.

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**Samrat / Allen**

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