



Military Quantum Mission Policy Framework

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- **In News:** The Chief of Defence Staff (CDS) released the **Military Quantum Mission Policy Framework** (Jan 2026).

Vision

- Achieve **jointness and integration** among the **Tri-Services**
- Prepare for **technology-centric warfare** and future battlefields
- Attain **technological dominance** in defence

Civil–Military Fusion

- Aligned with **National Quantum Mission (NQM)**
- Promotes collaboration between **civilian research institutions** and **military applications**
- Implemented through **dedicated governing bodies**

Core Quantum Domains (4 Pillars)

1 Quantum Communication

2 Quantum Computing

3 Quantum Sensing & Metrology

4 Quantum Materials & Devices

Defence Applications of Quantum Technology

1. Secure Communications:

o **Quantum Key Distribution (QKD)** using entanglement ? theoretically unhackable keys

1. Quantum Sensing & Metrology:

o **Quantum radar/imaging** to detect stealth aircraft & submarines

1. Quantum Navigation:

o High-precision navigation when **GPS is jammed**

1. Intelligence & Logistics:

o Quantum algorithms for **logistics optimisation, SIGINT analysis, and Quantum-AI-enabled autonomous systems**

1. Quantum Materials:

Kamaraj IAS Academy

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oAdaptive camouflage; ultra-durable materials for **aerospace**

1. **Cyber Defence:**

oShift to **Post-Quantum Cryptography (PQC)** to counter future quantum cyber threats