



**KAMARAJ IAS ACADEMY**  
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# India–Japan Sign Key Agreements on Health Research and Quantum Technologies

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India and Japan have signed multiple important agreements to strengthen cooperation in health research, quantum technologies, advanced computing, and scientific innovation. The move reflects the growing strategic and technological partnership between the two countries, especially in emerging and high-impact technologies.?

## Key Highlights of the Agreements:

### Cooperation in Health Research and Medical Technology:

India's Department of Science and Technology (DST), Indian Council of Medical Research (ICMR), and Japan's Agency for Medical Research and Development (AMED) signed agreements to enhance collaboration in:

Biomedical research

Medical devices

Healthcare innovation

Disease surveillance and public health technologies

This cooperation aims to improve joint research in areas like diagnostics, digital healthcare, and advanced medical solutions. It can also help both countries respond better to future health emergencies and pandemics.

### Important Term: AMED

AMED (Japan Agency for Medical Research and Development) is Japan's leading organization for promoting medical R&D and healthcare innovation. It functions somewhat similarly to agencies that fund large-scale medical research projects.

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## **Collaboration in Quantum Technologies**

India and Japan also signed a Letter of Intent (LoI) to deepen cooperation in quantum science and technology.

### **The partnership will focus on:**

Quantum computing

Quantum communication

Quantum sensing

Advanced research and talent exchange

Both countries aim to jointly develop next-generation technologies that can revolutionize computing, cybersecurity, defence systems, and communication networks.

### **Important Term: Quantum Technology**

Quantum technology uses principles of quantum mechanics to build extremely powerful computing and communication systems.

### **Applications include:**

Ultra-fast computing

Highly secure communication

Advanced simulations

Defence and strategic technologies

Quantum technology is considered a critical frontier technology globally.

Focus on Emerging and Strategic Technologies

### **The discussions also emphasized cooperation in:**

Artificial Intelligence (AI)

Advanced computing

Semiconductor-related research

Innovation ecosystems

Industrial partnerships

India highlighted that Japan's technological expertise combined with India's skilled workforce and growing startup ecosystem can create strong innovation-driven growth.

## **Strategic Importance of India–Japan Partnership**

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The agreements are significant because India and Japan are increasingly collaborating in: Technology, Defence, Supply chains & Infrastructure

## **Indo-Pacific strategy**

Both countries are trying to reduce dependence on limited global technology sources and build resilient innovation partnerships.

The collaboration also aligns with India's goals of: "Make in India", Digital transformation, Scientific self-reliance & Becoming a global technology hub

## **Important Terms Associated with the News**

### **Term Meaning**

DST Department of Science and Technology, Government of India

ICMR India's top medical research body

AMED Japan Agency for Medical Research and Development

LoI (Letter of Intent) A preliminary agreement showing intent to cooperate

Quantum Computing Computing using quantum mechanics principles

Emerging Technologies New advanced technologies with future strategic importance

Strategic Partnership Long-term cooperation in critical sectors between countries

## **Japan**

Capital: Tokyo

Emperor: Naruhito

Prime Minister: Sanae Takaichi

Currency: Japanese yen