Amaravati Quantum Valley: South Asia's First Quantum Manufacturing Facility by February 2027

15 November 2026 · science & technology · Prelims



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15 November 2026: Andhra Pradesh has announced South Asia's first quantum computing manufacturing facility at the Amaravati Quantum Valley, spread over 250 acres. The facility is slated for inauguration on 3 February 2027. The announcement came at the CII Partnership Summit in Visakhapatnam, where day one saw Rs 5.84 lakh crore in proposed investments - 73 MoUs and 15 firm deals - with a projected 1,07,693 jobs.

Amaravati Quantum Valley: key facts

- First in South Asia: A 250-acre quantum computing manufacturing facility at Amaravati - a hardware push, not just research.
- Timeline: Inauguration planned for 3 February 2027.
- Investment backdrop: CII Partnership Summit day-one proposals worth Rs 5.84 lakh crore (73 MoUs + 15 deals), 1,07,693 projected jobs.

Quantum computing: the exam basics

- Principle: Uses qubits that exploit superposition and entanglement - unlike classical bits (0 or 1), qubits can represent multiple states at once.
- India's programme: The National Quantum Mission (approved April 2023, Rs 6,003.65 crore, 2023-24 to 2030-31) targets 50-1,000 qubit computers in eight years, plus quantum communication, sensing and materials hubs (T-Hubs).
- Applications: Drug discovery, cryptography, optimisation, materials science and finance.

Quiz: Test your knowledge

Q1: South Asia's first quantum computing manufacturing facility is coming up at:

(a) Bengaluru(b) Amaravati(c) Hyderabad(d) Pune

Answer and explanation: (b) Amaravati, Andhra Pradesh - a 250-acre facility at the Quantum Valley, to be inaugurated on 3 February 2027.

Q2: The outlay of India's National Quantum Mission is:

(a) Rs 1,000 crore(b) Rs 6,003.65 crore(c) Rs 10,372 crore(d) Rs 2,500 crore

Answer and explanation: (b) Rs 6,003.65 crore (2023-24 to 2030-31), approved by the Union Cabinet in April 2023.

Frequently Asked Questions (FAQ)

In short: South Asia's first quantum computing manufacturing facility - 250 acres at Amaravati Quantum Valley - is to be inaugurated on 3 February 2027; announced amid Rs 5.84 lakh crore of summit investment proposals.

Question: What is the Amaravati Quantum Valley?

An Andhra Pradesh initiative hosting South Asia's first quantum computing manufacturing facility, spread over 250 acres, targeted for inauguration on 3 February 2027.

Question: What is the National Quantum Mission?

A Central mission approved in April 2023 with Rs 6,003.65 crore outlay (2023-24 to 2030-31) to build 50-1,000 qubit quantum computers and set up four T-Hubs for quantum technologies.

Question: What is a qubit?

The basic unit of quantum information - unlike a classical bit, a qubit can exist in a superposition of 0 and 1, and qubits can be entangled, enabling massive parallelism.

Sources:

https://www.business-standard.com/industry/news/amaravati-to-launch-quantum-manufacturing-andhra-nets-5-8-trn-in-deals-126111201703_1.html

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