

GOVERNMENT OF INDIA
MINISTRY OF SCIENCE AND TECHNOLOGY
DEPARTMENT OF SCIENCE AND TECHNOLOGY
RAJYA SABHA
STARRED QUESTION NO. 291
ANSWERED ON 19.03.2026

IMPLEMENTATION OF NQM IN BIHAR

*291. SHRI AKHILESH PRASAD SINGH:

Will the Minister of SCIENCE AND TECHNOLOGY be pleased to state:

- (a) whether any institutions from Bihar, including universities in Patna, have been selected under the National Quantum Mission (NQM) for development of quantum communication, computing or sensing technologies;
- (b) the funds allocated and research grants sanctioned to institutions in eastern India under the Mission since 2023;
- (c) whether Government proposes to establish regional quantum research hubs to reduce geographical imbalance; and
- (d) the steps taken to promote industry–academia collaboration and skill development in advanced technologies in the State?

ANSWER

MINISTER OF STATE (INDEPENDENT CHARGE) FOR THE
MINISTRY OF SCIENCE AND TECHNOLOGY & EARTH SCIENCES
(DR. JITENDRA SINGH)

(a) to (d): A Statement is laid on the table of the House.

**STATEMENT AS REFERRED IN REPLY TO PARTS (a) TO (d) OF RAJYA SABHA
STARRED QUESTION NO. 291 FOR 19.03.2026 REGARDING “IMPLEMENTATION
OF NQM IN BIHAR”**

(a) to (c): The Government of India is implementing the National Quantum Mission (NQM) to promote research, development, and innovation in quantum technologies with an outlay of ₹6003.65 crore for a period of eight years. Four Thematic Hubs have been established, namely Quantum Computing at the Indian Institute of Science Bengaluru, Quantum Communication at the Indian Institute of Technology Madras in association with C-DoT, Quantum Sensing & Metrology at the Indian Institute of Technology Bombay, and Quantum Materials & Devices at the Indian Institute of Technology Delhi. These T-Hubs comprises of 14 Technical Groups having 17 Project Teams bringing together a total of 152 researchers from 43 Institutions across 17 states and 2 UTs, including Bihar. The Indian Institute of Technology (IIT) Patna participates as a Member Institution (MI) in the Quantum Communication and Quantum Computing verticals under the Mission.

The National Quantum Mission follows a Hub–Spoke–Spike model for implementation, wherein the T-Hubs work with partner institutions across the country to undertake collaborative research and technology development. Institutions from different regions, including eastern India, participate as Lead or Member Institutions in the Technical Groups under the hubs, thereby ensuring broader geographical participation in the Mission.

The funds allocated and research grants sanctioned to institutions in eastern India under the Mission since 2023 is given below:

Institution	Technology Vertical	Total Allocation (₹ Cr till Mar 2031)	Released (₹ Cr)
IIT Bhilai	Quantum Communication	1.81	0.59
IIT Patna	Quantum Communication; Quantum Computing	13.29	3.57
IIT Kharagpur	Quantum Communication; Quantum Materials & Devices	40.47	16.70
National Institute of Science Education and Research Bhubaneswar	Quantum Computing	8.32	2.15

Institution	Technology Vertical	Total Allocation (₹ Cr till Mar 2031)	Released (₹ Cr)
IIT Bhubaneswar	Quantum Materials & Devices	7.37	2.66
Indian Association for the Cultivation of Science, Kolkata	Quantum Materials & Devices; Quantum Sensing & Metrology	8.89	3.67
S.N. Bose National Centre for Basic Sciences	Quantum Sensing & Metrology	1.54	0.35
TCG Centres for Research and Education in Science and Technology, Kolkata	Quantum Sensing & Metrology	7.09	3.75

(d) The four T-Hubs established under NQM are fully functional and undertake activities including technology development, human resource development, entrepreneurship development, industry collaboration and international collaborations. The Mission promotes industry-academia collaboration and skill development by involving academic institutions, national laboratories, startups and industry partners in research and technology development activities. Institutions participating under the Mission, including those in Bihar, engage in these collaborative initiatives and capacity-building programmes. Further, under the Call for Undergraduate Teaching Laboratories in Quantum Technologies, Indian Institute of Information Technology, Bhagalpur (IIIT Bhagalpur), Bihar has been selected among 23 institutions across India to provide hands-on training in quantum technologies.

The Ministry of Electronics and Information Technology (MeitY) has supported a project on the development of a High-Performance Computing (HPC)-based Quantum Accelerator. One of the implementing agencies for this project is the Centre for Development of Advanced Computing (C-DAC), Patna. C-DAC Patna has developed a GPU-accelerated simulator, QARN (Quantum Accelerated and Reconfigurable Noisy Simulator), which is capable of simulating up to 35 qubits.
