

**GOVERNMENT OF INDIA
MINISTRY OF SCIENCE AND TECHNOLOGY
DEPARTMENT OF SCIENCE AND TECHNOLOGY
LOK SABHA
UNSTARRED QUESTION No. 2306
TO BE ANSWERED ON 15.3.2023
QUANTUM CYBER ATTACKS**

2306. DR. SHASHI THAROOR:

Will the Minister of **SCIENCE AND TECHNOLOGY** विज्ञान और प्रौद्योगिकी मंत्री be pleased to state:

- (a) whether the Government has developed systems capable of withstanding quantum cyber attacks in its National Mission on Quantum Technologies and Applications announced during the budget session 2020-21;**
- (b) if so, the details thereof, if not, the reasons and the timelines therefor;**
- (c) whether the Government would consider developing encryption tools that meet cryptographic standards set by the United States of America's National Institute of Standards and Technology (NIST) and if so, the details thereof; and**
- (d) whether the Government has initiated or intends to initiate diplomatic partnerships with "techno-democracies" to help pool resources and mitigate emerging quantum cyber threats, if so, the details thereof?**

ANSWER

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

विज्ञान और प्रौद्योगिकी तथा पृथ्वी विज्ञान मंत्रालय के राज्य मंत्री (स्वतंत्र प्रभार)
(डॉ. जितेंद्र सिंह)

- (a) & (b) Yes Sir. Government is developing a proposal to initiate National Mission on Quantum Technologies & Applications with the objectives of building capabilities in Quantum Computing, Quantum Communication, Quantum Materials, Quantum Sensing and metrology. Details of Mission structure and deliverables are yet to be finalized.**
- (c) As of now, there is no proposal to undertake developing encryption tools that meet cryptographic standards set by the National Institute of Standards and Technology (NIST), USA.**
- (d) As of now, there is no proposal to undertake diplomatic partnerships with "techno-democracies" to help pool resources and mitigate emerging quantum cyber threats.**
