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)

(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.