

**GOVERNMENT OF INDIA  
MINISTRY OF COMMUNICATIONS  
DEPARTMENT OF TELECOMMUNICATIONS**

**LOK SABHA  
UNSTARRED QUESTION NO. 2866  
TO BE ANSWERED ON 20<sup>TH</sup> DECEMBER, 2023**

**STRENGTH AND ADVANTAGES OF 6G**

**2866. SHRI LALLU SINGH:**

Will the Minister of COMMUNICATIONS be pleased to state:

- (a) the details of the unique strengths and advantages India holds in the field of 6G;
- (b) the manner in which approach to 6G development differs from that of other countries; and
- (c) the details of the key areas of focus for Government's 6G research efforts?

**ANSWER**

**MINISTER OF STATE FOR COMMUNICATIONS  
(SHRI DEVUSINH CHAUHAN)**

(a) to (c) The Government has released Bharat 6G Vision Document with the following objectives:

- i. Design, develop and deploy 6G network to provide ubiquitous, intelligent and secure connectivity for high quality living experience.
- ii. Affordability, Sustainability and Ubiquity which align with the national Vision of Atmanirbhar Bharat that seeks to empower every Indian to become self- reliant.

In order to take a lead in 6G technology, the Government has constituted Bharat 6G Mission to lay down the objectives of 6G, suggest the research and innovation pathways to be explored and review the progress of implementation of Bharat 6G Vision from time to time. Further, Bharat 6G Alliance (B6GA), an alliance of domestic industry, academia, national research institutions and standards organisations has been launched to enable India to become a leading global supplier of IP, products and solutions. B6GA has also signed Memorandum of Understanding with NextG Alliance of USA to explore collaboration opportunities on 6G wireless technologies.

Further, Government has taken following initiatives to position India as a leading contributor in 6G technology:

- a. Government has launched Telecom Technology Development Fund (TTDF) scheme with 5% of annual collections from Universal Service Obligation Fund for funding research & development of technologies, products, and services. Under TTDF, two proposals for test beds have been approved, viz. 6G THz Testbed through consortium of Society for Applied Microwave Electronics Engineering and Research (SAMEER), IIT Madras, IIT Guwahati and IIT Patna; Advance Optical Communication Test Bed with Consortium Members as IIT Madras, IIT Delhi and other academic institutions.
- b. Government has sanctioned 100 5G and beyond labs at academic institutions across India. This initiative is also a pivotal step for building a 6G – ready academic and start-up ecosystem in the country.
- c. India has contributed in International Telecommunications Union International Mobile Technology (IMT) 2030 framework, also called 6G by industry for inclusion of 'Ubiquitous Connectivity' as one of the six usage scenarios of 6G and coverage, interoperability and sustainability as capabilities of 6G technology.

\*\*\*\*\*