GOVERNMENT OF INDIA
MINISTRY OF ELECTRONICS AND INFORMATION TECHNOLOGY
LOK SABHA
UNSTARRED QUESTION NO. 5242
TO BE ANSWERED ON: 02.04.2025

PROMOTION OF RESEARCH AND DEVELOPMENT IN ELECTRONICS AND INFORMATION TECHNOLOGY SECTOR

5242. SHRI K GOPINATH:

Will the Minister of ELECTRONICS AND INFORMATION TECHNOLOGY be pleased to state:

(a) whether the Government is aware that Research and Development of Electronics and Information Technology Sector is being neglected in the country;
(b) if so, the details thereof and if not, the justification thereto;
(c) whether the Government has initiated any scheme to promote Research and Development in Electronics and Information Technology sector;
(d) if so, the details thereof; and
(e) the details regarding the contribution of Digital Public Infrastructure (DPI) in the development and financial inclusion of the country?

ANSWER

MINISTER OF STATE FOR ELECTRONICS AND INFORMATION TECHNOLOGY
(SHRI JITIN PRASADA)

(a) to (d): Ministry of Electronics and Information Technology ('MeitY') is promoting research and development in Electronics and Information Technology in the country through its Digital India Program. Under this programme, new and indigenous technologies/ system/ software/ tools are developed from Proof of Concept (PoC) to system development and deployment to address various societal, industrial and strategic needs. Government supports the R&D ecosystem which includes capacity building, creation of infrastructure for research and through suitable policy intervention at academia/Research organization/ startups and industry.

The government through different ministries are encouraging the Research efforts in this sector. Some of the major government initiatives to boost Research under the Digital India Program (DIP) in the country are highlighted below: -

- **IndiaAI Mission:** The Cabinet has approved the IndiaAI Mission at a total outlay of Rs. 10,371.92 Crores as a comprehensive programme for leveraging transformative technologies to foster inclusion, innovation and adoption for social impact as well as to make India a global leader in the Al space and ensure responsible and transformational use of Al for All. The India AI mission seeks to foster responsible and inclusive growth within India's AI landscape by democratizing access to computing resources, enhancing data quality, nurturing homegrown AI expertise, attracting top talent, fostering industry

partnerships, supporting startup ventures, promoting socially impactful AI projects, and emphasizing ethical practices in AI.

- **National Supercomputing Mission:** The mission was launched in 2015, to foster a robust ecosystem in High-Performance Computing (HPC). Under NSM, more than 30 Peta-Flop (1015) capacity supercomputers have been deployed across academic institutions, R&D labs like IISc, IITs, etc. enabling over 8000 researches from 200 institutes to execute more than 94 lakh application codes. These supercomputers are pivotal in developing national-level applications in genomics, drug discovery, flood forecasting, disaster management, and seismic data processing. Over 20,000 individuals have been trained in HPC and AI areas under the Mission.

To achieve the 'Atmanirbhar' (self-reliance) in HPC and AI, development of indigenous supercomputing sub-components i.e. Server Board, High Speed Interconnect, Complete Software Stack, Direct contact liquid Cooling (DCLC) cooling technology etc. have been undertaken through the mission.

- **BHASHINI:** MeitY has launched Mission Digital India Bhashini in the year 2022 with an outlay of Rs 495.51 crore. Aim is to develop core language technologies for speech and text translation for 22 scheduled Indian languages in open source to help transcend language barriers in the digital medium. A national public digital platform http://bhashini.gov.in has been developed to proliferate language technology solutions.
- **Semicon India Programme:** In addition to Digital India Program (DIP) Government has also approved the 'Semicon India Programme' with a total outlay of INR 76,000 crore for the development of semiconductor and display manufacturing ecosystem in the country. The programme aims to provide financial support to companies investing in semiconductors & display manufacturing and design ecosystem. This paves the way for India's growing presence in the global electronics & semiconductor value chains. Following four schemes have been introduced under the aforesaid programme:

  i. Modified Scheme for setting up of Semiconductor Fabs in India
  ii. Modified Scheme for setting up of Display Fabs in India
  iii. Modified Scheme for setting up of Compound Semiconductors / Silicon Photonics / Sensors Fab / Discrete Semiconductors Fab and Semiconductor Assembly, Testing, Marking and Packaging (ATMP) / OSAT facilities in India
  i. Design Linked Incentive (DLI) Scheme

- In addition to the above schemes, Government has also approved modernization of the existing semiconductor manufacturing facility - Semi-Conductor Laboratory (SCL), Mohali as a brownfield Fab and several policies intervention and schemes are initiated by government from time to time.

(e):Digital Public Infrastructure (DPI) refers to the foundational digital systems that enable seamless and efficient delivery of public and private services. DPI has been a transformative force in India's socio-economic development, significantly enhancing financial inclusion, governance and economic growth. India's DPI ecosystem comprises key platforms such as **Aadhaar, Unified Payments Interface (UPI), DigiLocker, etc among others**. Expanding DPI in rural areas has

been a key priority for India to bridge the digital divide, improve financial inclusion and ensure access to essential government and financial services.

Several initiatives have played a crucial role in achieving this goal. These initiatives include, Aadhaar which has provided digital identity to 1.4 billion people and facilitating e-auth for 7+ crore people on an average on daily basis. DigiLocker which is a platform for issuance and verification of documents & certificates digitally. DigiLocker has onboarded 50+ crore users and is facilitating seamless access to 924 crore documents. UMANG - unified platform for all Indian Citizens to access pan India digital services ranging from Central to Local Government bodies and other citizen centric services. Currently, 2,106 services from 207 Central/State/UT departments have been on-boarded on UMANG platform. Unified Payment Interface (UPI) is the leading digital payment platform, and it is facilitating 50 crore transactions on daily basis.

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