GOVERNMENT OF INDIA
MINISTRY OF ELECTRONICS AND INFORMATION TECHNOLOGY
LOK SABHA
UNSTARRED QUESTION NO. 1686
TO BE ANSWERED ON: 10.12.2025

MAKING INDIA A GLOBAL HUB FOR SEMICONDUCTOR DESIGN

1686. SHRI P C MOHAN:

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

(a) whether the Government has prepared a roadmap to make India a leading global hub for semiconductor design, manufacturing and innovation and if so, the key elements thereof;
(b) the details of policy measures, incentives and infrastructure support being extended under the India Semiconductor Mission including research and talent development;
(c) the initiatives taken to promote startups and home-grown companies, particularly in Bengaluru, which hosts a large semiconductor design and R&D ecosystem; and
(d) the steps being taken by the Government to integrate Indian companies into the global semiconductor value chain, attract investments and build domestic capabilities in chip design, fabrication and packaging?

ANSWER

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

(a) to (d): Electronics and semiconductors are foundational industries. They are important for smooth functioning of nearly every sector of the economy and have a huge scale impact on the lives of citizens.

Government's policy: Government of India's electronics and semiconductor policy is based on the Hon'ble Prime Minister's vision of Atma Nirbhar Bharat and Make in India. Government has adopted a planned and methodical approach to increase electronic manufacturing across the entire value chain including semiconductors.

As a result of this, India has emerged as a major electronics manufacturing hub with a six-fold increase in production, eight-fold increase in exports of electronics goods, 28 times increase in production of mobile phones and 127 times increase in export of mobile phones over the past decade.

Semicon India Programme: Recognising the pivotal role of semiconductors in driving India's rapidly expanding electronics manufacturing, the Government of India has launched Semicon India Programme in 2022 for development of semiconductors in the country.

Government is focused on developing the entire ecosystem of semiconductors which includes - designing, fabrication, assembly, testing and packaging. Government is also focused on developing skills and talent required for the semiconductor industry.

Semiconductor units: In less than 3 years, ten (10) units have been approved with cumulative investment of Rs. 1.6 Lakh Cr. These units include Silicon fab, Silicon Carbide fab, advanced packaging, memory packaging, etc.

These would cater to chip requirements of sectors such as consumer appliances, industrial electronics, automobiles, telecommunications, aerospace, and power electronics etc.

Promoting design ecosystem: To leverage India's strength in chip design, the Government launched Design Linked Incentive (DLI) Scheme. Support has been provided to 24 projects of start-ups and home-grown companies to develop semiconductor chips for satellite communication, drones, surveillance camera, Internet of Things (IoT) devices, LEDs driver, AI devices, telecom equipment, smart meter, etc.

These companies are spread across various States in the country, with 11 of them located in Bangalore.

7 companies have successfully fabricated prototype chips and 12 companies have collectively raised around Rs 400 Cr. from domestic and global venture capital firms to scale up their solutions.

Chips to Start-up (C2S) Programme: To encourage India's young engineers, Government is providing latest design tools to 395 universities and start-ups. Using these tools, chip designers from more than 46 universities have designed and fabricated the chips using these tools at Semiconductor Laboratory (SCL), Mohali.

Cumulative usage of centralized EDA tools is 187 Lakh hours (141 Lakh hours by academic institutions and 47 Lakh hours by startups)

Design in India: Almost all major semiconductor design companies have set up design centres in India. Most advanced chips such as 2nm chips are now being designed in India by Indian designers.

Semiconductor ecosystem is shaping up: Encouraged by Government policies and growth of electronics and semiconductor manufacturing in India, the entire ecosystem is now getting developed. Companies involved in specialised gases, materials, components, warehousing, etc. are scaling up their operations in India.

Companies involved in making tools for electronics and semiconductor manufacturing are also expanding their operations.

Due to these concerted policy actions of the Government, India is emerging as a trusted global partner for electronic and semiconductor manufacturing.

*****