

GOVERNMENT OF INDIA
MINISTRY OF ELECTRONICS AND INFORMATION TECHNOLOGY
RAJYA SABHA
UNSTARRED QUESTION NO. 711
TO BE ANSWERED ON: 24.07.2026

PROGRESS ACHIEVED UNDER INDIA SEMICONDUCTOR MISSION

711. SHRI SANJAY SETH:

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

- (a) the nationwide progress achieved under the India Semiconductor Mission (ISM) in establishing a robust, indigenous semiconductor manufacturing ecosystem;
- (b) whether the successful approval and grounding of commercial fabrication and Assembly, Testing, Marking, and Packaging (ATMP) facilities are proceeding on schedule;
- (c) the details of the Central financial support effectively disbursed to approved semiconductor manufacturing units during the current fiscal year;
- (d) the successful collaborative initiatives with global technology institutes to develop a highly specialized Very Large Scale Integration (VLSI) design workforce; and
- (e) the steps taken to secure a stable domestic supply chain for electronic grade chemicals and specialized ultra-pure gases required for fabs?

ANSWER

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

(a) to (e): **India's success in electronics manufacturing:**

Inspired by the Hon'ble Prime Minister's vision of AtmaNirbhar Bharat and making India a global electronics manufacturing hub, Government adopted structured and targeted policy initiatives for the development of electronics manufacturing across the entire value chain including semiconductors.

As a result, India now has emerged as one of the major electronics manufacturing ecosystems as seen below:

#	2014-15	2025-26	Remarks
Production of electronics goods (₹)	~1.9 Lakh Cr	~13.11 Lakh Cr	Increased 7 times
Export of electronics goods (₹)	~38 thousand Cr	~4.24 Lakh Cr	Increased 11 times
Production of mobile phones (₹)	~18 thousand Cr	~6.27 Lakh Cr	Increased 33 times

Export of mobile phones (₹)	~1500 Cr	~ 2.59 Lakh Cr	Increased 165 times
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India now manufactures around 99.2% of the total mobile phones sold in the country. Mobile phones have emerged as the single largest exported item. Industry estimates that electronics manufacturing now provides employment to nearly 25 Lakh people.

The semiconductor industry is a foundational industry. All sectors of the economy such as industrial, consumer, defence, telecommunication and automotive etc depend on semiconductors. This sector offers transformative capabilities by driving technological innovation, economic growth, and strategic self-reliance.

Semicon India Programme:

The Government launched the Semicon India Programme in January 2022 with a total financial outlay of ₹76,000 crore to develop a comprehensive semiconductor and display manufacturing ecosystem. The details of the programme are available at www.ism.gov.in.

Under Semicon India Programme, Government has approved 12 semiconductor manufacturing projects with total investment commitments of about Rs. 1.64 lakh crore. Out of these 12 projects, commercial production has already been commenced from following three plants:

- Micron Semiconductor Technology India Pvt. Ltd
- Kaynes Semicon Pvt. Ltd
- CG Semi Pvt. Ltd.

The construction of the remaining projects is progressing at rapid pace.

Further, Twenty-four (24) semiconductor design projects have also been approved for financial support. Additionally, 105 start-ups/MSMEs have been granted access to industry-standard Electronic Design Automation (EDA) tools.

Semicon2.0:

Building on the success of Semicon India 1.0, the Union Cabinet approved Semicon 2.0 on July 15, 2026, with an outlay of ₹1.275 lakh crore. This initiative aims to establish a self-reliant, globally competitive semiconductor design and manufacturing ecosystem. Semicon 2.0 is built on following six pillars:

S. No.	Pillars	Segment
1	Design of Chips	Strategic & commercial chips
2	Machines and materials	Equipment, chemicals, gases, materials
3	Setting up more Fabs	Silicon, display, compound etc.
4	Further strengthening the ATMP/OSAT industry	Advanced & legacy packaging
5	Research & Development	Advanced technologies
6	Talent Development	Design & manufacturing talent

The Semicon2.0 has dedicated pillars for development of supply chain (Equipment, chemicals, gases, materials etc). Further, the approved applicants can tie up with various global and local supply chain partners to ensure long term supply of the chemicals, gases and other raw materials.

Government has also signed MoUs with the USA, EU, Japan, Singapore, the Netherlands, and Germany which provides an enabling platform for B2B collaborations for securing supply chain partnerships of such approved companies.

Development of Semiconductor Talent Pipeline:

Government has adopted a comprehensive approach for building talent pipeline in semiconductors:

1. Chips to Start-up (C2S) Programme: To encourage India's young engineers, Government is providing latest design tools (EDA) through ChipIN Centre (set up at C-DAC, Bengaluru) to 320 universities and start-ups. So far, ~68,000 persons have been trained and 175 designs taped out from SCL Mohali.
2. All India Council for Technical Education (AICTE) has launched the following semiconductor courses:
 - (i) B. Tech in Electronics Engineering (VLSI Design)
 - (ii) Diploma in Integrated Circuit (IC) manufacturing, and
 - (iii) Minor Degree in Electronics Engineering (VLSI Design and Technology)
3. ISM has also partnered with Lam Research for conducting a large-scale training programme in nanofabrication and process-engineering skills. These would further augment skilled workforce for ATMP and advanced packaging. The program aims to generate 60,000 trained manpower in 10 years.
4. A MoU has been signed between India Semiconductor Mission (ISM) and Purdue University, USA. This MoU aims to establish Purdue University as a flagship academic partner and collaborator with ISM and Government of India for skilled workforce development and joint R&D in the broad field of semiconductors and microelectronics.
5. MoU between ISM and NAMTECH: This MoU aims to build India's semiconductor workforce pipeline by training approximately 5,000 professionals over the next five years. MoU involves developing structured certification programs jointly endorsed by ISM to ensure national and international recognition; facilitating faculty exchange and global collaboration through ISM-linked partners; creating student internship and apprenticeship opportunities across ISM-supported fabs, ATMPs, OSATs, and design houses.
