

GOVERNMENT OF INDIA(Corrected)
MINISTRY OF ELECTRONICS AND INFORMATION TECHNOLOGY
LOK SABHA
UNSTARRED QUESTION NO. 536
TO BE ANSWERED ON: 22.07.2026

SKILLED MANPOWER FOR SEMICONDUCTOR MANUFACTURING PROJECTS

536. DR. K SUDHAKAR:
SHRI G LAKSHMINARAYANA:
SHRI LAVU SRI KRISHNA DEVARAYALU:

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

- (a) the details of semiconductor manufacturing projects approved under the India Semiconductor Mission, State-wise particularly in Karnataka and Andhra Pradesh;
- (b) the details of estimated requirement of skilled manpower for these projects along with the number of persons trained so far under Government-supported semiconductor skilling programmes;
- (c) whether any specialised training centres or Centres of Excellence are proposed in Karnataka and Andhra Pradesh to support the semiconductor ecosystem and if so, the details thereof;
- (d) the expected employment generation from the approved semiconductor manufacturing project in Karnataka and Andhra Pradesh; and
- (e) the details of steps taken by the Government to align higher educational institutions in Karnataka and Andhra Pradesh with the skill requirements of the semiconductor industry?

ANSWER

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

(a) to (e): 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.

India's success in electronics manufacturing:

Since 2014, Government of India has undertaken series of initiatives to promote electronics manufacturing in the country. These include FDI reforms, tax reforms, labour reforms, Production Linked Incentive schemes, etc.

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

#	2014-15	2025-26	Remarks
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

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.

Semicon India Programme:

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 advantages by driving technological innovation, economic growth, and strategic self-reliance.

Recognising the importance of Semiconductors, the Government launched Semicon India Programme in January 2022 for setting up of semiconductor fabs, display fabs semiconductor packaging and also for promotion of Indian designed chips.

Under Semicon India Programme, Government has approved 12 manufacturing projects with total investment commitments of about Rs. 1.64 lakh crore that includes ASIP technologies proposal in the state of Andhra Pradesh with an investment of Rs. 468 crore. These units are expected to generate more than 32,000 employment opportunities (including ASIP's projected employment of 500) depending on the level of factory automation.

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. The list of organizations supported under C2S programme in the State of Andhra Pradesh and Karnataka is at https://c2s.gov.in/EDA_Tool_Support.jsp
2. A Committee was constituted by MeitY to develop a roadmap and set goals and target for "India as a Semiconductor Talent Nation". The report of this committee was forwarded to Department of Higher Education for revisiting curriculum for semiconductors domain. Accordingly, 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.
