GOVERNMENT OF INDIA
MINISTRY OF ELECTRONICS AND INFORMATION TECHNOLOGY
LOK SABHA
UNSTARRED QUESTION NO. 5347
TO BE ANSWERED ON: 25.03.2026

PUBLIC AND PRIVATE PARTICIPATION IN ISM

5347. ADV K. FRANCIS GEORGE:
SHRI TATKARE SUNIL DATTATREY:

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

(a) whether the Government has launched the 'India Semiconductor Mission' (ISM) and if so, the details of the Public and Private participation in the Mission so far;
(b) the objectives and target set for the ISM and ISM 2.0 along with the details of the major milestones achieved under ISM 1.0;
(c) whether the Government has offered financial incentives to Private investors and if so, the details thereof;
(d) the role of private sector and Public Private Partnership (PPP) in ISM 2.0;
(e) the quantum of employment expected to be generated by the Mission;
(f) whether the Government is encouraging global semiconductor companies to setup their Research and Development (R&D) operations in the country;
(g) if so, the details of major R&D initiatives being taken for enhancing manufacturing capacity and semiconductor development;
(h) the details of steps taken for long term sustenance and growth of major projects under these schemes and missions; and
(i) whether the Government is providing incentives to Indian start-ups and academic institutions to enter the Electronic Design Automation sector and if so, the details thereof?

ANSWER

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

(a) to (i): Semiconductor industry is a foundational industry as it is embedded in almost all aspects of the economy. Self-reliance in electronics and semiconductor manufacturing is of strategic importance for our country. The supply chain of semiconductors is concentrated in few geographies leading to vulnerabilities. COVID-19 exposed such vulnerabilities in the global semiconductor supply chains.

Driven by the Atma Nirbhar Bharat vision of Hon'ble PM and to diversify the electronics and semiconductor supply chains, the Government launched Semicon India Programme for development of a complete ecosystem, ranging from design, fabrication, assembly, testing, packaging and module manufacturing. The details of the programme are available at www.ism.gov.in.

Achievements:

- In a short span of four years, the Government has approved 10 manufacturing projects with investment commitments of about Rs. 1.6 lakh crore. These units are expected to generate more than 27,000 direct employment and will have a cascading effect on the employment opportunities across the supply chain and allied sectors, leading to significant indirect job creation. The approved project details are at **Annexure I**
- 24 design projects worth Rs. 900 crore have been approved, covering critical sectors like video surveillance, drone detection, energy metering, microprocessors, satellite communications, broadband, and IoT SoCs. Of these, 14 companies have secured venture capital funding,
- 103 fabless chip design companies have been supported with access to advanced chip design infrastructure, cumulatively consuming 60 lakh hours of tool usage
- 7 chips have been successfully fabricated out of 16 designs taped out across multiple foundries, including advanced nodes such as 12 nm at TSMC

Driving Innovation through dedicated Schemes: To strengthen the innovation ecosystem, the Department of Science and Technology (DST) is implementing two complementary initiatives with distinct focus areas.

- Anusandhan National Research Foundation (ANRF): Focused on academic research, industry collaboration, and translational research in semiconductors, electronics, and advanced materials
- Research, Development and Innovation (RDI) Scheme: Designed to support late-stage technology development and commercialization, providing long-term financing and risk capital for industry-led R&D

Together, ANRF and RDI address the full innovation pipeline – from knowledge creation in academia to industrial deployment and commercialization

Specific Projects supported by MeitY: Additionally, MeitY supports R&D projects across academic institutions, research organizations, and startups in areas of semiconductors such as nanotechnology, semiconductor materials, processes, chip design, and IP cores. Notable initiatives include:

- Government has approved a project titled “Next Generation AMOLED Displays, OLED Lighting and OPV products: Development of disruptive Technologies to enable cost effective electronic component manufacturing in India” with a budget outlay of ~₹42 Crore, being implemented at IIT Madras. The physical deliverables of the project are to develop prototypes for AMOLED Display; OLED Lighting; and OPV Power Source for Mobile Phones
- Government has also funded a project to Foundation for Science Innovation and Development (FSID), IISc Bengaluru for “Establishment of Gallium Nitride (GaN) Ecosystem Enabling Centre and Incubator (GEECI) for High Power and High-Frequency Electronics” at IISc Bengaluru with budget outlay of ~Rs. 334 Crore. The project envisions to nucleate an end-to-end ecosystem for enabling GaN based electronics manufacturing in the country for power and RF electronics

- Indian Nanoelectronics Users' Programme (INUP) program for accelerating research and development in micro and nanoelectronics in India has been launched to leverage the Nano centres established by MeitY at Indian Institute of Science, Bengaluru (IISc) and Indian Institutes of Technology (IITs). The program supports the exploratory and innovative research for development of technologies covering MEMS, Compound Semiconductor materials & devices, sensors and photovoltaics. The program will also support start-ups, incubation, prototyping through collaboration and mentoring Programme

India Semiconductor Mission 2.0: Building on the success of Semicon India Programme and further enhance the capabilities in semiconductors, Hon'ble FM, in the Union Budget 2026-27, announced India Semiconductor Mission 2.0 for manufacture of equipment and materials, design full stack, Indian IP and fortify supply chains.

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Annexure I

Details of approved semiconductor manufacturing projects:

1. **Micron Technology Inc.** is establishing semiconductor manufacturing facility in Gujarat with an investment of Rs.22,516 crore. Micron's facility in India will enable assembly and test manufacturing for both DRAM and NAND products and address demand from domestic and international markets. The production capacity is around 14 million units per week.
2. **Tata Electronics Private Limited (TEPL)** is establishing semiconductor manufacturing facility in Gujarat with an investment of Rs. 91,526 crore. The fab facility will be set up in technology partnership with PSMC, Taiwan. The production capacity of the project would be around 50,000 wafer starts per month (WSPM).
3. **Tata Electronics Private Limited (TEPL)** is establishing semiconductor manufacturing facility in Assam with an investment of Rs.27,120 crores. The facility will use indigenous semiconductor packaging technologies with a production capacity of 48 million units per day.
4. **CG Power and Industrial Solutions Limited** is establishing semiconductor manufacturing facility in Gujarat with an investment of Rs. 7,584 crore. The facility will be set up as a joint venture partnership with Renesas Electronics America Inc., USA, and STARS Microelectronic, Thailand. The Technology would be provided for this facility by Renesas Electronics Corporation, Japan and STARS Microelectronic, Thailand. The production capacity would be around 15.07 million units per day.
5. **Kaynes Technology India Limited (KTIL)** is establishing semiconductor manufacturing facility in Gujarat with an investment of Rs. 3,307 crores for Wire bond Interconnect, Substrate Based Packages. The Technology would be provided by ISO Technology Sdn. Bhd. and AOI Electronics Co. Ltd. (AOI). The facility will have the capacity to produce more than 6.33 million chips per day.
6. **Vama Sundari Investments (Delhi) Private Limited (VSIPL)** is establishing semiconductor manufacturing facility in Uttar Pradesh with an investment of Rs 3,706 crores for display driver ICs (DDIC) using Gold (Au) Bump technology along with chip probing facilities and die processing services. The Technology would be provided by Hon Hai, Taiwan. The facility will be set up as a joint venture partnership between VSIPL and Foxconn, India. The production capacity would be around 20K wafers per month/36 million chips per month.
7. **3D Glass Solutions Inc. (3DGS)** is establishing semiconductor manufacturing facility in Odisha with an investment of Rs. 1,943 crores. The plant will handle the assembly of packaged products such as Flip Chip Ball Grid Array (FCBGA) assembly, Radio Frequency System in Package (RF SiP), Antenna in Package System in Package (AiP SiP), glass interposers with passives and silicon bridges and 3D Heterogeneous Integration (3DHI) modules. The Proposed installed capacity for glass panel substrate production, assembly and 3DHI is around 5800 panels per month, 4.20 million units per month, and 1100 units per months respectively.
8. **SiCSem Private Limited** is establishing semiconductor manufacturing facility in Odisha with an investment of Rs. 2,066 crores. The facility will be set up in technology partnership with Clas-SiC Wafer Fab Ltd. for SiC fab and Continental Device India Pvt. Ltd. for packaging. The production capacity is 5,000 wafers/month, and the packaging capacity is 8 million units/month.
9. **Continental Device India Private Limited (CDIL)** is expanding its semiconductor manufacturing facility in Punjab, with an investment of Rs. 117 crores. The facility will manufacture high-power discrete semiconductor devices such as MOSFETs, IGBTs, Schottky

Bypass Diodes, and transistors, both in Silicon and Silicon Carbide. The production capacity will be around 158.38 million units/annum.

10. **Advanced System in Package Technologies Private Limited (ASIP)** is establishing semiconductor manufacturing facility in Andhra Pradesh**,** with an investment of Rs. 480 crores. The facility will be set up in technology partnership with APACT Co. Ltd, South Korea. The production capacity of the facility would be around 96 million units/annum.

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