GOVERNMENT OF INDIA
MINISTRY OF ELECTRONICS AND INFORMATION TECHNOLOGY
RAJYA SABHA
UNSTARRED QUESTION NO. 720
TO BE ANSWERED ON: 05.12.2025

MANUFACTURING HUB FOR INDUSTRIAL ELECTRONICS

720. DR. M. DHANAPAL:

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

(a) whether Government concurs with the view that India should aim to become a global design and manufacturing hub for industrial electronics, not just a user, to drive technological self-reliance and economic growth?
(b) If so, the details of the initiatives that are proposed to be taken by Government to leverage industrial electronics for smart factories, robotics, intelligent grids, automated transport systems, through technological advancements, policy support, and international collaborations; and
(c) If not, the reasons therefor?

ANSWER

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

(a) to (c): Driven by Prime Minister's vision of Make in India and Atmanirbhar Bharat, Government of India has taken several strategic initiatives to broaden and deepen the electronics manufacturing ecosystem. As a result of these initiatives, India has emerged as a global hub for electronics manufacturing. The remarkable growth of electronics goods production and export can be seen as follows:

#	**2014-15**	**2024-25**	**Remarks**
Production of electronics goods (₹)	1.9 Lakh Cr	11.3 Lakh Cr	Increased 6 times
Export of electronics goods	0.38 Lakh Cr	3.3 Lakh Cr	Increased 8 times

To accelerate this transition, the Government of India is implementing a series of coordinated policies and schemes aimed at positioning the country as a global hub for the design and manufacturing of industrial electronics. Key initiatives include:

i. **Design Linked Incentive (DLI) Scheme**: To strengthen the design ecosystem, MeitY has introduced the DLI Scheme under which chips and System-on-Chips (SoCs) for diverse

industrial, commercial, and strategic applications are being developed. Fiscal support has already been approved for 24 proposals covering sectors such as motor controllers, satellite communication, drone detection, surveillance cameras, IoT power management, LED drivers, smart meters, gas sensors, and general-purpose microprocessor IP cores for edge applications.

ii. **Semiconductor Fabrication and Packaging:** Under the *Semicon India Programme*, the Government has approved 10 semiconductor manufacturing projects across six states, representing a cumulative investment of approximately ₹1,60,000 crore.

iii. MeitY has developed **advanced technologies and products for smart factories**, including Supervisory Control and Data Acquisition (SCADA) systems for real-time monitoring and optimization in industries such as power generation, pulp & paper, sugar, water treatment, and food processing. Notable innovations include:

- **Industrial Controller (iCON):** Enables process control, data acquisition, remote equipment monitoring, and motion control.
- **Industrial System Monitoring Autonomous Remote Terminal Unit (iSMART):** Captures and processes real-time plant parameters through analog and digital inputs/outputs.
- **Industrial Wireless Base Station (iWase):** Provides location and time information, acting as a gateway between wireless sensor networks and external systems.
- **Industrial Range Open SCADA Software (iROSE):** Built on open system technologies, ensuring interoperability with devices from multiple vendors.
- **Industrial Wireless Base Station (iWase):** To provide location and time information to the network. The iWase acts as a gateway between the wireless sensor network and the external world.
- **Industrial Range Open SCADA Software (iROSE):** A SCADA software built using open system technologies rather than a vendor controlled, proprietary technology. Data acquisition using open protocols provide interoperability with devices from various vendors.

iv. For automated transportation system, Meity has **developed Urban Traffic Control System (UTCS) and Adaptive Traffic Control System (ATCS**). Such products have enabled implementation of Intelligent Transportation Management System (ITMS), Bus Priority System using V2X (vehicle to vehicle and vehicle to infra connectivity) in various smart city initiatives.

v. As regards intelligent grid systems, various technology solutions/products like smart sensing, advanced metering infrastructure, solid state transformer, power quality devices for smart grid etc. are being developed under National Mission on Power Electronics Technology (NAMPET).

Further, MeitY has notified the Electronics Component Manufacturing Scheme (ECMS) on April 8, 2025, to promote the manufacturing of a wide spectrum of components including sensors, actuators and capital equipment for smart manufacturing. The components supported under ECMS are designed to have broad applicability across multiple sectors, including Industrial Electronics.

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