Micron Semiconductor ATMP Facility Inauguration in Gujarat

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Prime Minister Narendra Modi will inaugurate the Semiconductor Assembly, Test, Marking and Packaging (ATMP) facility of Micron Technology in Sanand, Gujarat.

Significance of the event:

Marks the official commencement of commercial production and shipment of the first “Made-in-India” semiconductor memory modules.

Represents a major milestone in India’s semiconductor manufacturing journey and strengthens India’s integration into the global semiconductor value chain.

Union Minister of Electronics and IT Ashwini Vaishnaw will also be present.

Key project details:

Investment: Over ?22,500 crore under the India Semiconductor Mission (ISM).

Ground-breaking: September 2023.

Facility size: ~500,000 sq. ft. cleanroom, among the world’s largest raised-floor cleanrooms.

Output: Advanced DRAM and NAND memory products, integrated circuit packages, SSD storage devices, etc., for global markets.

What is an ATMP facility?

An Assembly, Test, Marking and Packaging (ATMP) facility is part of the back-end process in semiconductor manufacturing, where chips are assembled into usable modules, tested, marked for identification, and packaged for shipment.

Why semiconductor manufacturing matters:

Semiconductors are critical for modern technologies like smartphones, data centres, AI, computing, defence systems, IoT and automobiles.

Global semiconductor market is projected to reach ~USD 1 trillion by 2030, making strategic investment vital for supply-chain diversification.

India Semiconductor Mission (ISM):

Launched by the Government of India to support semiconductor fabrication, design, and packaging investments through financial incentives and ecosystem development.

Sanand plant was the first project approved under ISM 1.0 to reach commercial production.

Employment and socioeconomic impact:

The facility currently employs ~2,000 workers and is expected to create ~5,000 direct jobs when fully operational.

Inclusive hiring practices also support employment of persons with disabilities.

India's semiconductor ecosystem:

India is emerging as a global semiconductor hub, with multiple projects in states like Gujarat, Assam, Odisha, Uttar Pradesh and Punjab under the broader semiconductor push.

Future semiconductor fabs (fabrication plants) and packaging facilities are planned, contributing to self-reliance in tech manufacturing.