



KAMARAJ IAS ACADEMY
Only IAS Academy by Grandson of "Perunthalsivam Kamarajar"

Indian Semiconductor Mission (ISM)

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Why is in news? Indian Deep Tech and a case for a strategic fund

The ISM was **launched in 2021** with a total financial outlay of Rs76,000 crore under the aegis of the **Ministry of Electronics and IT (MeitY)**.

It is part of the comprehensive program for the **development of sustainable semiconductor and display ecosystem** in the country.

The programme **aims to provide financial support** to companies investing in semiconductors, display manufacturing and design ecosystem.

Envisioned to be led by global experts in the Semiconductor and Display industry, **ISM will serve as the nodal agency** for efficient, coherent and smooth implementation of the schemes.

4 Sub-schemes: (i) Scheme for setting up of Semiconductor Fabs in India, (ii) Scheme for setting up of Display Fabs in India, (iii) Scheme for setting up of Compound Semiconductors / Silicon Photonics / Sensors Fab and Semiconductor Assembly, Testing, Marking and Packaging (ATMP) / OSAT facilities in India, and (iv) Design Linked Incentive (DLI) Scheme.

The **Vision of ISM** is to build a vibrant semiconductor and display design and innovation ecosystem to enable India's emergence as a global hub for electronics manufacturing and design.

It will **formulate a comprehensive long-term strategy** for developing semiconductors & display manufacturing facilities and semiconductor design ecosystem in the country

It will **facilitate the adoption of trusted electronics** through secure semiconductors and display supply chain.

It will **enable a multi-fold growth** of Indian semiconductor design industry

It will also **promote and facilitate indigenous Intellectual Property (IP)** generation

ISM will also **enable collaborations and partnership programs** with national and international agencies, industries and institutions for catalyzing collaborative research, commercialization and skill development.

Semiconductor:

Semiconductors, or chips, have **properties** that are somewhere **between conductors and insulators**.

Usually made of silicon, they are used to **power a wide range of devices** - cars, laptops, smart-phones, household appliances and gaming consoles.

These tiny objects perform a host of functions such as powering displays and transferring data.

So, a supply crunch has a consequent impact on sales of cars, fridges, laptops, TVs and other electronic devices.

Kamaraj IAS Academy

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