

Cabinet approves two more semiconductor manufacturing units with cumulative investment of more than Rs. 3,900 crore

India Semiconductor Mission: Momentum accelerates further as India advances into Compound Semiconductor based Mini/Micro LED Display Manufacturing

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The Union Cabinet chaired by the Prime Minister Shri Narendra Modi approved two more semiconductor projects under India Semiconductor Mission (ISM) which includes country's first commercial Mini/Micro-LED display facility based on GaN (Gallium Nitride) Technology and a semiconductor packaging facility.

The two approved proposals will set up semiconductor manufacturing facilities in Gujarat with a cumulative investment of around Rs.3,936 crore and are expected to generate cumulative employment for 2,230 skilled professionals.

The details of the two approved proposals are as follows:

- i. **Crystal Matrix Limited (CML)** will establish an integrated facility for compound semiconductor fabrication and ATMP in Dholera, Gujarat for manufacturing Mini/Micro-LED display modules. The integrated facility will also provide GaN foundry services, including epitaxy on 6" wafers. The annual proposed production capacity for Mini/Micro-LED Display Panels is 72,000 sq. meters, and for Mini-Micro-LED GaN Epitaxy Wafers is 24,000 sets of RGB wafers. The proposed products will have applications in large displays for TVs and signages/commercial displays, Medium-sized displays for tablets, smartphones, and in-car displays, and Micro-displays for Extended Reality (XR) glasses and smart watches.
- ii. **Suchi Semicon Private Limited (SSPL)** will be setting up an Outsourced Semiconductor Assembly and Test (OSAT) facility in Surat, Gujarat for manufacturing discrete semiconductors. The proposed production capacity of the Suchi Semicon is 1033.20 million chips per annum. The target applications include power electronics, analog ICs, and industrial systems, serving end markets such as automotive, industrial automation, and consumer electronics.

With these two approvals, semiconductor ecosystem in the country would get a significant boost as the total number of approved projects under India Semi-conductor Mission (ISM) reaches 12, with cumulative investments of around Rs.1.64 lakh crore.

These would complement the growing world class chip design capabilities coming up in the country which are propelled by design infrastructure support provided by Government to 315 academic institutions and 104 start-ups.

Momentum is building up further in the semiconductor ecosystem in India with the ten approved projects already in various stages of execution. Two projects have already started commercial shipments from India and Two more are expected to start commercial shipments soon.

MJPS

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