

L&T Press Release

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L&T House
Ballard Estate, Mumbai 400 001
Tel: 91 22 6752 5656
CIN: L99999MH1946PLC004768

L&T Semiconductor Technologies-IIT Gandhinagar Join Hands to Develop Semiconductor Solutions for Projects of National Importance

Mumbai, August 30, 2024: L&T Semiconductor Technologies (LTSC), a pioneer in indigenous semiconductor design & development, has entered a partnership with the Indian Institute of Technology, Gandhinagar (IIT Gandhinagar), for joint development of secure Integrated Circuits (IC) and System-on-Chips (SoC) projects of national importance.

The collaboration synergises LTSC's cutting-edge capabilities in semiconductor development with IIT Gandhinagar's academic excellence. Both the entities have committed to a collaborative framework encompassing research, development and training with an emphasis on fostering innovation and strengthening India's semiconductor capabilities.

A centrepiece of the collaboration is the joint development of secure ICs and SoCs for India's vital technological infrastructure such as ePassport, eDriving License, eAadhaar, Electronic Voting Machine (EVM) and NAVIC based navigation ICs.

In addition, LTSC and IIT Gandhinagar will collaborate on developing Post-Quantum Encryption Algorithms (QEA) initiative which aligns with Government of India's vision of *Aatmanirbhar Bharat* and echoes the Prime Minister's clarion call of *Jai Anushandhan*.

The partnership will also focus on capacity building and skill development, essential for bolstering India's workforce in semiconductor design and manufacturing. Through initiatives such as curriculum development, train-the-trainer programmes, hands-on workshops, and certification courses, it seeks to empower the next generation Indian techies.

LTSC is set to play a pivotal role in IIT Gandhinagar's 'Silicon and Advanced Semiconductor Materials Research and Training Hub (SAMARTH)', an initiative designed to enhance semiconductor literacy and skill sets among Indian students. The partnership is also geared towards fostering collaboration among various stakeholders in Electronics System Design and Manufacturing (ESDM).

Congratulating both the entities on this collaboration, **Dr Sunita Verma, Group Coordinator, (R&D E&IT), Ministry of Electronics and Information Technology, Government of India,** said: "The collaboration between LTSC and IIT Gandhinagar exemplifies the synergy

between industry and academia that is vital for realising the goals of *Aatmanirbhar Bharat*. This partnership will not only accelerate the development of indigenous technologies but also enhance our global competitiveness in the semiconductor domain."

Mr Sandeep Kumar, Chief Executive - L&T Semiconductors Technologies, said: "The partnership marks a transformative chapter in LTSCCT's journey towards driving innovation and technological advancement in India's semiconductor sector. By combining our industry-leading expertise on multiple application areas with IIT Gandhinagar's academic and innovation rigor, we are poised to address critical challenges towards 'Designed-in-India' semiconductors and contribute to the nation's vision of a self-reliant and technologically advanced country."

Speaking on the occasion, **Prof Rajat Moona, Director - IIT Gandhinagar**, said: "We are delighted to partner with LTSCCT in multiple strategic areas like niche security products, post-quantum compute-based ecosystem development and much more. This reinforces our commitment to world-class research & development in the semiconductor space that makes India lead the technological sector on a global scale. Together, we will create a positive environment that nurtures talent, fosters collaborative innovation, and contributes to the nation's technological prowess."

About LTSCCT:

L&T Semiconductor Technologies Ltd. (LTSCCT), a fully owned subsidiary of Larsen & Toubro, is a fabless Semiconductor multinational product company - focused on designing & delivering innovative solutions and comprehensive suite of services to its Global Customers. It provides Semiconductor Devices, Solutions and Technology partnership by helping customers realize energy efficient, high-performance systems to benefit from data, electrification and software defined technology trends. LTSCCT has its R&D centres in Bangalore, Delhi & Chennai and Product Engineering & Sales divisions in Austin, Munich and Tokyo.

Background:

Larsen & Toubro is a USD 27 billion Indian multinational engaged in EPC Projects, Hi-Tech Manufacturing, and Services. It operates in over 50 countries worldwide. A strong, customer-focused approach and the constant quest for top-class quality have enabled L&T to attain and sustain leadership in its major lines of business for eight decades.

Media Contacts:

Sumeet Chatterjee

Head - Corporate Brand Management &
Communications

sumeet.chatterjee@larsentoubro.com