

PRESS RELEASE – Steel-Based Zero Energy Building (ZEB) Inaugurated in India

12 December 2025 | Bhubaneswar, India

constructsteel today marked the inauguration of a new steel-based Zero Energy Building (ZEB) in Bhubaneswar, developed in partnership with Tata Steel. The project demonstrates how advanced steel construction technologies can accelerate the development of efficient, climate-resilient buildings in India.

This initiative is the outcome of a constructsteel working group project, developed through the joint expertise and active participation of member companies committed to advancing sustainable steel-based construction.

The 1,836 sq. ft. (170 sq. m) facility was completed in 3.5 months using Light-Gauge Steel Frame (LGSF) construction. The approach enables fast, precise, and low-waste building methods, resulting in a lightweight, durable structure with strong thermal performance suited to India's climate.

Designed to achieve annual net-zero energy use, the ZEB incorporates a tightly sealed and insulated envelope, high-performance glazing, efficient lighting and cooling systems, and natural ventilation where appropriate. Rooftop solar panels and Building-Integrated Photovoltaics (BIPV) generate the renewable power required to offset consumption.

Additional features include rainwater harvesting, low-flow fixtures, and modular components that support ease of maintenance and future adaptation.

As part of constructsteel's mission to promote sustainable steel-based construction globally, this project provides a scalable model for low-energy residential buildings and highlights the important role steel can play in meeting India's long-term sustainability goals.

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- constructsteel is the steel construction market development programme of the World Steel Association. Bringing together major global steel producers and stakeholders, our mission is to elevate steel as the ultimate choice in construction, foster sustainability, and communicate its unparalleled advantages to construction stakeholders worldwide.