TATA STEEL

#WeAlsoMakeTomorrow

nest-in
A Tata Steel Construction Solution

HabiNest
A Tata Steel Solution

THE REVOLUTIONARY PREFABRICATED STEEL CONSTRUCTION SOLUTION

About Nest-In

Nest-In is a steel based prefabricated construction solutions brand from the house of Tata Steel.

We provide complete turnkey solutions with unique customer experiences at our core. Our offerings are suitable for various applications like pre-fab housing, pre-fab modular toilets, security cabins, designer rooftop houses and more.

The key differentiators that define us are:

- High Speed Construction
- Hassle-free Experience for Customers
- Quality of Offerings
- Reliability of Service
- Convenient Installation in the toughest locations across India

Focusing on innovation, technology, sustainability and people, Nest-In strives to be a benchmark for value creation in the modular construction space. We are deeply committed to uphold the values and legacy of Tata Steel. Tata Steel's guiding principles of trust and reliability is embedded in every endeavour that we undertake.

Today, we serve over 26 states in India and help create a better life for millions of Indians everyday


ChargeNest
Every Ride Electrified


In&Out
TOYS

INTRODUCING HABINEST: THE SMART AND SUSTAINABLE WAY OF BUILDING

HabiNest is a unique light gauge steel frame construction (LGSF) solution from the house of Tata Steel. It is ideal for building industrial amenities, mass housing, offices, community centres, cafeterias, schools, hospitals, farm houses and much more.

HabiNest buildings are constructed in almost 1/3rd the time it takes for conventional construction, provide more usable space and are suited for construction in difficult terrains as well.

THE MAKING OF A **HABINEST STRUCTURE**

01 Architectural Design

02 Structural Design

03 Shop Drawing

04 Production by CNC Roll Formers

05 Assembling & erection of frames

06 Electrical &Plumbing Work

07 Cladding & finishing

HABINEST COMPONENTS
& SPECIFICATIONS

01 Foundation & Plinth
- Reinforced concrete foundation and beams
- Plinth filling and compaction

02 Structure
- Light Gauge Steel frame thickness 0.8 mm 550 MPa, 250 GSM or AZ150 Galvalume
- HR Steel as per structural requirements

03 Flooring System
- Floor joint, board and tiles
- Decking sheet with concrete & tiles/ laminated wooden flooring

04 Prefabricated Walls
- Fibre cement/ gypsum boards
- Insulated walls with rock wool/ glass wool
- Putty, exterior/ interior paint, wallpaper

05 Roofing System
- Colour coated roofing sheets
- Roof shingles/ clay tiles
- Flat and accessible RCC roof

THE POSSIBILITIES ARE **ENDLESS WITH HABINEST**

HabiNest can be used to construct:

01 Residential Buildings

02 Medical Centres

03 Industrial Units

04 Educational Institutes

05 Commercial Spaces

EXPERIENCE
THE HABINEST ADVANTAGE

High-Speed Construction
- 2x* faster construction
- For an approximaate 20,000sqft. project, HabiNest takes up to 3 months to complete whereas an regular RCC construction takes up to 10 to 11 months

Stringent Quality Control
- Complete in-house steel manufacturing
- Off-site fabrication
- Quality certified materials

Termite Resistant
- No wood-based construction material

High Tolerance
- High seismic resistance
- High wind resistance

State-of-the-Art Technology
- Designed using cutting edge software
- Manufactured using high-tech equipment

Low Construction Waste
- Optimised structural components
- Minimal wastage of contruction materials

Safer Construction
- Less on-site labor requirement
- Controlled operation

Construction in Difficult Terrain
- Minimal foundational requirement
- Easy resource management

*T&C Apply

HABINEST IS SIGNIFICANTLY **BETTER IN LIFE CYCLE IMPACT**

A life cycle assessment study showed that a HabiNest structure fared significantly better than a conventional RCC structure over a range of life cycle categories as illustrated below:

Requires
65% lesser
material resources

Consumes
48% lesser
fresh water

Results in
53% lesser
greenhouse gas related impacts

*Disclaimer: These findings are based on an internal life cycle assessment study carried out by Tata Steel Corporate Sustainability Team.

HABINEST IS **TRULY UN SDG COMPLIANT**

Rapid modernization has led to the need for significantly more sustainable construction methods.

Nest-In through HabiNest offers a lightweight, energy and resource efficient modular housing solution that meets several United Nations Sustainable Development Goals (UN SDGs)

HABINEST FULFILLS 5 MAJOR SDGs

HabiNest creates energy credit equivalent to 5 tons of CO2 compared to an energy burden equivalent to 2 tons of CO2 in a conventional structure.

HabiNest is a Light Gauge Steel Frame prefabricated solution that's revolutionary as well as highly sustainable.

HabiNest consumes 35% fewer resources compared to the conventional structure leading to a 66% waste reduction at the end of its life.

HabiNest's higher recyclability ensures 48% to 61% environmental savings when compared to a traditional RCC structure.

Greenhouse gas related impacts (Global Warming Potential) of a HabiNest structure is 53% lesser than a conventional RCC construction.

SUSTAINABLE DEVELOPMENT GOALS

Source - https://sdgs.un.org/goals

HABINEST ENABLES **MORE ENERGY SAVINGS**

HabiNest offers a high level of efficiency in developing sustainable building solutions for current and future generations.

WHAT MAKES HABINEST ENERGY EFFICIENT?

Lower RETV factor (Residential Envelope Transmittance Value) compared to conventional RCC structure

Significantly low electricity consumption due to low U value of LGSF walls

Chiller capacity reduced up to 50% in air-conditioned building due to better insulation behaviour

NEST-IN
LGSF ACADEMY

The Nest-In LGSF Academy is a landmark project for us for a very special reason. It lays the foundations for Nest-In to make the next level leap in LGSF construction.

The objective of this academy is to train the next generation of skilled personnel who are proficient in LGSF construction.

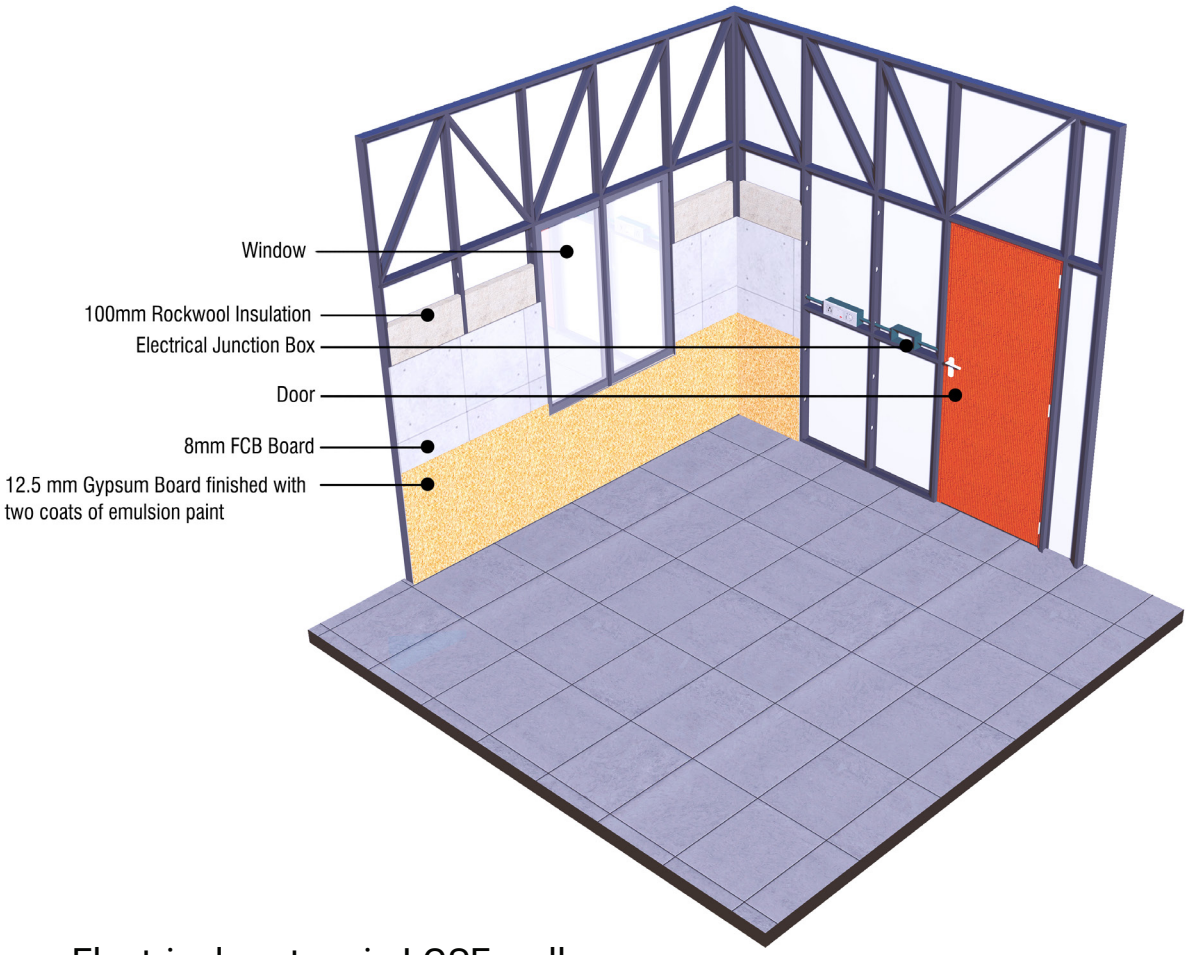
The burgeoning demand of HabiNest LGSF in FY22 prompted us to elevate our efforts in order to meet the target of 8,00,000 sq.ft of LGSF construction in FY23 across India.

Through the collective effort at JNTVTI (J.N Tata Vocational Training Institute), the academy will build and develop a pool of skilled site supervisors and installers. The academy itself will be constructed using HabiNest.

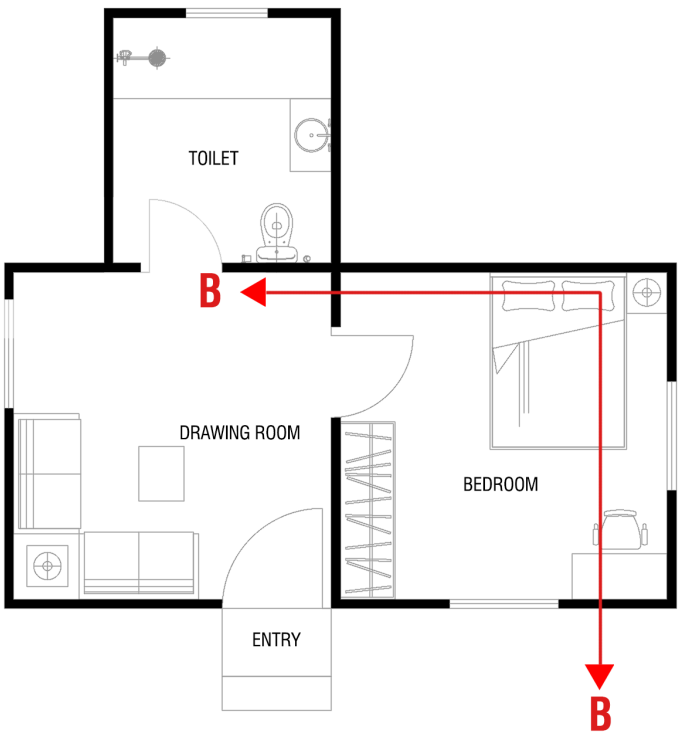
LGSF ACADEMY

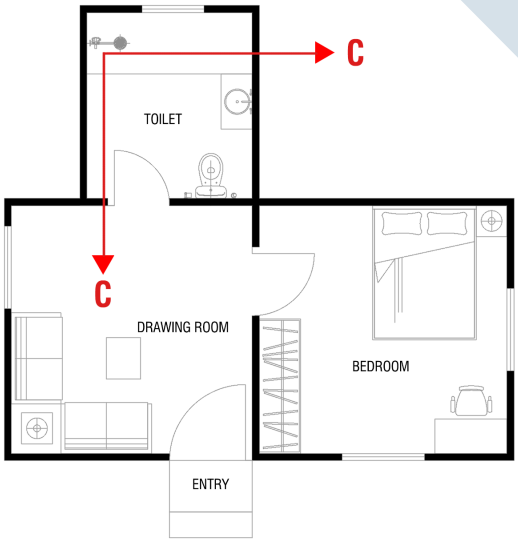
A SKILL DEVELOPEMENT INITIATIVE BY NEST-IN AND JNTVTI

SECTIONAL VIEW OF LGSF WALLS

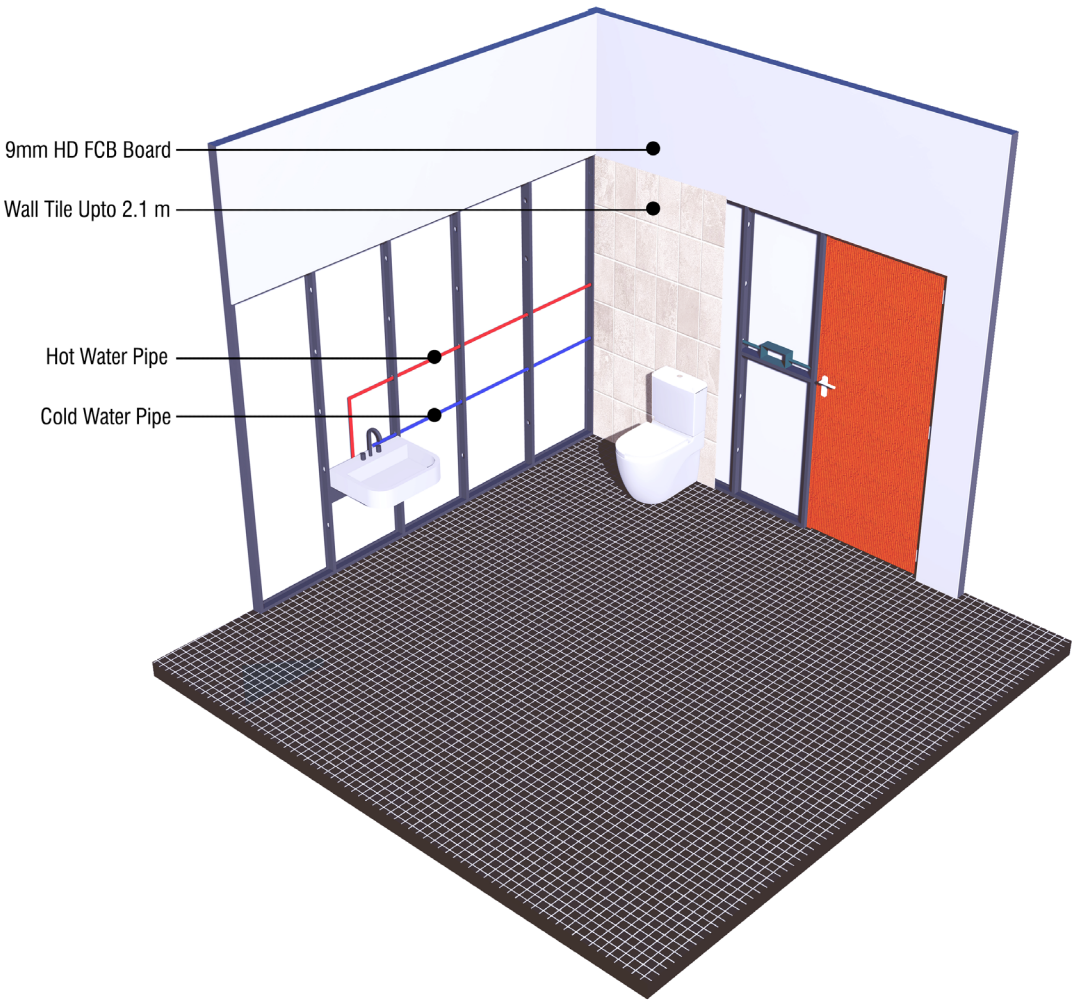


Electrical system in LGSF walls





Plumbing system in LGSF walls



INDIAN OIL CORP LTD, PARADIP

It was the first time Nest-In was doing full-fledged multi-storey HabiNest construction for a big PSU like IOCL.

CUSTOMER
INDIAN OIL CORPORATION

PROJECT SIZE
G+1 HOSTEL BUILDING
14,000 SQ.FT

DURATION OF CONSTRUCTION
7 MONTHS

MANIPAL CANTEEN, JAMSHEDPUR

The first HabiNest project specifically designed as an exclusive canteen, or a food facility was executed flawlessly and in record time.

CUSTOMER
Manipal Academy of Higher Education (MAHE)

PROJECT SIZE
5051 SQ.FT

DURATION OF CONSTRUCTION
120 DAYS

JOJO CAMP NOAMUNDI, JHARKHAND

The Noamundi project was Nest-In's very first K-House construction. It was deployed for the purpose of providing comfortable and ergonomic accommodation for workers. **The project was built using 75% reusable material and was a hybrid solution of HabiNest and K-House.**

CUSTOMER
Tata Steel Limited
OMQ

PROJECT SIZE
47,300 sq.ft.
12 G+1 buildings
6 Toilets

DURATION OF CONSTRUCTION
180 DAYS

BPCL IN & OUT CONVENIENCE STORES

Nest-In was tasked by Bharat Petroleum Corporation Limited (BPCL) with building over 400 In & Out convenience stores at its fuel stations across 7 states. We used HabiNest LGSF to complete the outlets in super quick time.

CUSTOMER
Bharat Petroleum Corporation Limited

PROJECT SIZE
420 outlets across 7 states & 148 districts
1,57,700 SQ. FT

DURATION OF CONSTRUCTION
90 DAYS

VESTAS OFFICE AND CANTEEN, CHENNAI

- First large-scale HabiNest (LGSF) project in South India
- Rooftop extension over the 4th floor

CUSTOMER
Vestas India, Chennai

PROJECT SIZE
7,275 SQ. FT.

DURATION OF CONSTRUCTION
90 DAYS

MANIPAL ACADEMIC BLOCK, JAMSHEDPUR

The expansive Manipal academic block project was a hybrid of HR & HabiNest (LGSF) construction. The project involved building a multistory G+3 Building having a central atrium and a rooftop cafeteria.

CUSTOMER
Manipal Academy of Higher Education (MAHE)

PROJECT SIZE
G+3 HabiNest LGSF construction
2,13,040 SQ. FT

DURATION OF CONSTRUCTION
455 DAYS

ITI, KARNATAKA

Nest-In in collaboration with Karnataka government and Tata Technologies constructed nearly 150 ITI (Industrial Training Institute) buildings across 30 districts in Karnataka using HabiNest LGSF solution.

CUSTOMER
Karnataka Govt.

PROJECT SIZE
149 ITI Centres
11, 00,000 SQ. FT

DURATION OF CONSTRUCTION
180 DAYS

OUR CLIENTS

CORPORATES

Nestlé
Mercedes-Benz
Godrej
Mahindra
ONGC
MANIPAL ACADEMY of HIGHER EDUCATION (Institution of Eminence Deemed to be University)
IndianOil
Bharat Petroleum energising lives
NTPC
vedanta transforming for good
RP-Sanjiv Goenka Group Growing Legacies

MUNICIPAL CORPORATIONS & DEVELOPMENT AUTHORITIES

Smart City AHMEDABAD
Dhanbad Municipal Corporation
DELHI METRO

GOVERNMENT BODIES

OMC
Municipal Corporation Tirupati
Indian Railways
Airports Authority of India
CPWD

THE TATA GROUP

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TATA CHEMICALS LIMITED
TATA PROJECTS LIMITED
TATA TECHNOLOGIES
TATA CONSULTING ENGINEERS LIMITED

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