TATA STEEL
#WeAlsoMakeTomorrow

nest-in
A Tata Steel Construction Solution

HabiNest
A Tata Steel Solution

THE REVOLUTIONARY MODERN CONSTRUCTION SOLUTION

HabiNest
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Follow us on: www.nestin.co.in | 1800 108 8282
nest-in@tatasteel.com |

Brochure Version 1.0

About Nest-In

As India surges forward to a smarter time and age, there is a need for newer, innovative and faster construction solutions that will fuel this momentum.

And making its presence felt in the nation's growth is Tata Steel Nest-In through its range of steel-based modular construction solutions.

Nest-In provides complete turnkey solutions with unique customer experience at its core, offering a wide range of prefabricated solutions for industrial infrastructure, housing, sanitation, safe drinking water, portable cabins and lifestyle solutions.

Nest-In today serves over 26 states in India and helps create a better life for millions of Indians everyday.

THE NEW & SMARTER 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.

EXPERIENCE THE HABINEST ADVANTAGE

High Speed Construction
Construction time is nearly 1/3rd as compared to conventional techniques

High Tolerance
Extremely robust and more resistant to seismic disturbances than conventional housing

Stringent Quality Control
Tata Steel's in-house steel is utilized, providing high-quality guarantee on material

State-of-the-Art Technology
Designed using cutting-edge technology enabling precision to the last millimetre

Low Construction Waste
HabiNest generates low construction waste & gives environmental benefits

Safer Construction
Less on-site labour & controlled operation ensures increased safety

Insect Resistant
HabiNest eliminates the termite problems prevalent in wood-based construction

Construction in Difficult Terrain
HabiNest is easier to construct in harsh terrains as compared to traditional methods

THE POSSIBILITIES ARE **ENDLESS WITH HABINEST**

HabiNest can be used to construct:

01 Industrial Amenities

02 Site Offices

03 Residential Buildings

04 Rooftop Extensions

05 Field Accommodation

06 Class Rooms/ Auditoriums

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

A life cycle assessment study conducted for HabiNest with a similar conventional RCC structure highlighted significant environmental benefits for HabiNest over a range of life cycle categories.*

THE HABINEST IMPACT

Requires
65% lesser
material resources than a conventional structure

Consumes
48% lesser
fresh water than a conventional structure

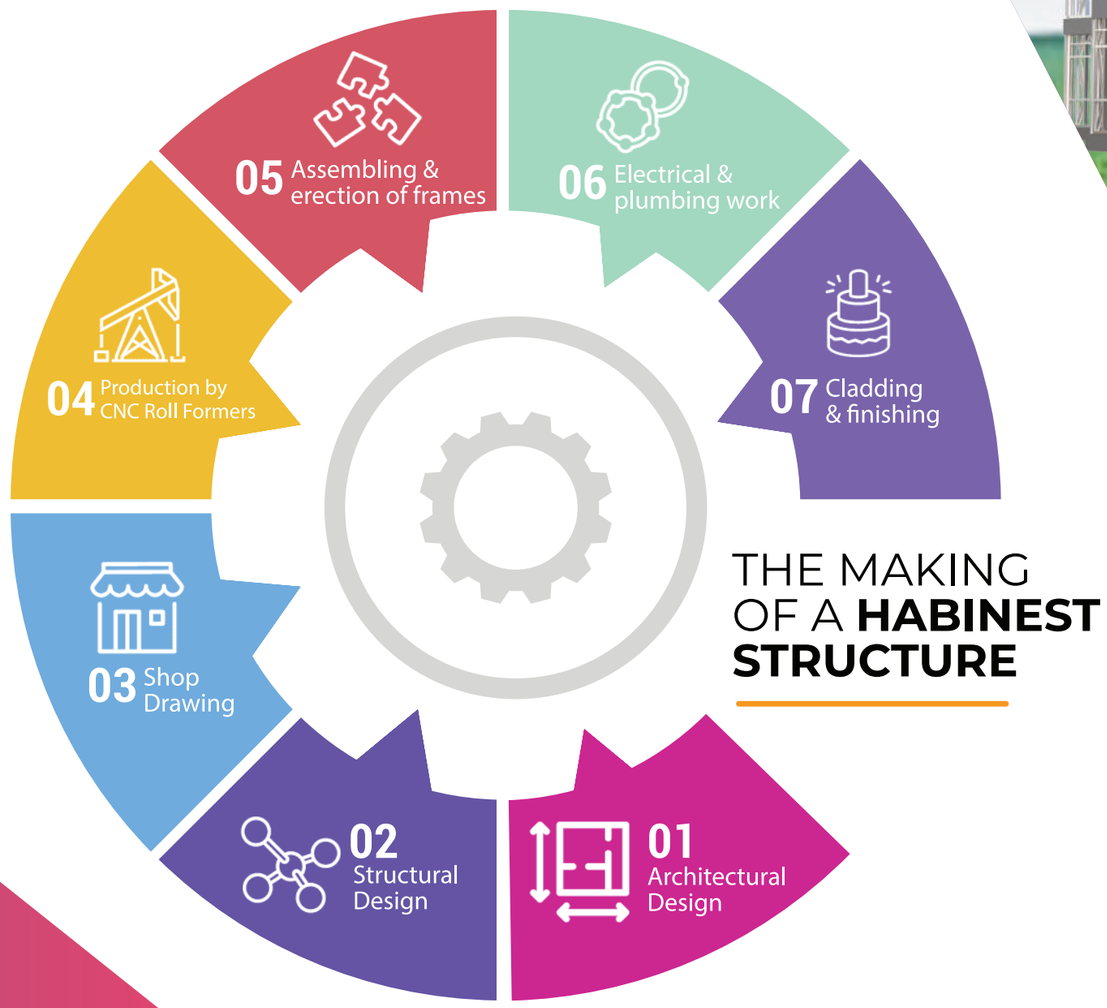
Greenhouse gas related impacts are
53% lesser
than a conventional structure

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

ADVANTAGE OF HABINEST OVER **RCC AND MS TUBULAR CONSTRUCTION**

	HABINEST	MS TUBULAR STRUCTURE	RCC CONSTRUCTION
Maintenance requirement of structural part	Low	High	Low
Erection process	Manual lifting & erection. Lesser requirement of onsite workforce	Heavy lifting equipment needed	Heavy material handling needed at the on-site. More requirement of onsite workforce
Strength vs. weight ratio	More	Less	Least
Installation Quality Assurance	Better. No welding required on-site. Factory made components available	Difficult to maintain site quality as direct welding might be needed at site	More onsite work, close monitoring needed to ensure quality
Premium look & feel	Possible	NOT Possible	Possible
Seismic resistance	High	Relatively lower	Lower than MS Structure
Time to construct	20,000 Sq.Ft. building in 3 months	20000 Sq.Ft. building in 5 to 7 months	20000 Sq.Ft. building in 10 to 11 months
Level of difficulty to construct in difficult terrains	Low	Medium	Highly difficult

HABINEST COMPONENTS **& SPECIFICATIONS**



THE MAKING OF A **HABINEST STRUCTURE**

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 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

HABINEST
SUCCESS STORIES

MANIPAL TATA MEDICAL COLLEGE, JAMSHEDPUR

The HabiNest structure was built in a very short time and it withstood the onslaught of Cyclone Amphan.

CUSTOMER
MANIPAL ACADEMY
OF HIGHER EDUCATION

PROJECT SIZE
10 BUILDINGS
23,000 SQ.FT

DURATION OF CONSTRUCTION
90 DAYS

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

ANGANWADI BUILDING, KARNATAKA & KASHMIR

Nest-In demonstrated timely execution in diverse and harshest of terrains, spread across multiple locations.

CUSTOMER
TATA SUSTAINABILITY GROUP

PROJECT SIZE
6,000 SQ.FT

DURATION OF CONSTRUCTION
1 MONTH

For A Better Life Everyday

Our core endeavour as Nest-In is to improve the lives of Indians every day. It is our mission to provide suitable and world class shelter, sanitation and drinking water solutions to all sections of our society. Nest-In carries forward the legacy and trust of Tata Steel in providing customised solutions for community requirements across India. We are committed towards sustainable communities, development and innovation. We have embarked upon a journey to transform the way people live. Yes, we are doing everything we can to touch and change millions of lives for the better. Every day.