




STEEL STRUCTURES

Mfd by

Pongalur Infra Roofings Pvt Ltd



www.pongalurinfragreen.com



WE LOVE TEAM WORK

QUALITY POLICY

Dedicated to customer satisfaction, we aim to provide industry leading engineering, manufacturing and execution of heavy and light steel construction solutions. Improving our technology and processes consistently, we strive to meet requirement of customers through efficient use of our resources.

We train and mentor our teams and management at the highest levels to ensure the best quality of customer satisfaction and project delivery.

We try hard to reduce our costs and cycle time, to provide the best turnkey heavy structural steel solutions and pre-engineered building systems to support projects in the most efficient manner, and be the preferred choice of our customers.

K. Shanmugasundaram

Founder & CEO- Pongalur Infra Roofings



JOIN THE GREEN BUILDING REVOLUTION WITH INFRA GREEN

What is a Green Building?

A Green Building is a collection of design and construction strategies that significantly reduce the negative environmental impacts of a building while providing healthy indoor space for its occupants.

What is IGBC?

The Indian Green Building Council (IGBC) is a part of CII, and was formed in 2001. The vision of the council is to usher in a green building movement in India and facilitate India to become one of the global leaders in green buildings with following objectives

- > Energy saving to the extent of 30 - 40 % right from day one
- > Enhanced indoor air quality
- > Higher productivity of occupants
- > Portable water saving to the tune of 20% - 30%
- > Enhanced day light & Ventilation



Indian Green Building Council

Why should you join the growing green building movement?

- > Fast environmental clearances to green projects.
- > Energy saving of 20-30% which becomes a major expense reduction in long run.
- > Concessions on interest rates by few banks for constructing green buildings.
- > Positive impact on the Brand image of the company & Publicity
- > Corporate social responsibility obligations are fulfilled when you help conserve environment



FOR OVER 21 YEARS
DELIVERING
TRUST & VALUE



1. Production capacity of 12,000 MT Per Annum
2. Delivered 550+Buidings
3. India's Leading Turnkey Pre-Engineered Metal Building and Steel Construction Company

PONGALUR INFRA ROOFINGS PVT LTD. is today the leading metal building products manufacturer and integrated structural steel construction solutions provider in India, established in 1997. Infra Green has always surged ahead in developing new generation products, working towards customer delight and setting benchmark across industries by following International Quality standards.

INFRA GREEN is an ISO 9001:2015 certified company and all products meet National and international standard requirements to deliver consistent quality to its customer.

Low-rise Buildings System Manual (MBMA) - Metal Building Manufacturers Association Inc., USA.

Manual for Steel Construction, Allowable Stress Design (AISC) - American Institute of Steel Construction Inc., USA.

Cold-Formed Steel Design Manual (AISI) - American Iron and Steel Institute, USA.

All measuring instruments and devices are calibrated on periodic basis to ensure consistent quality

Non - destructive testing on welding joints is carried out through ultrasonic testing & ground penetration system

Infra Green strictly follows National and International Standards for material procurement and production

Infra Green works with only certified and approved welders as per AWS D1.1:2010.

Quality system of Infra Green represents its commitment towards quality and is backed by years of research and development



ROBOTIC WELDING TECHNOLOGIES

FIRST HISTORICAL MOVEMENT IN INDIA

INFRA GREEN INTRODUCED ROBOTIC WELDING TECHNOLOGIES FOR PEB

ROBOTIC Welding automation offers numerous benefits for structures as well as customers of all sizes - from improved productivity and weld consistency to lower costs for production, labour and materials.

1. Increase in Productivity

2. Consistent and Repeatability

3. Flexibility

4. Safety

5. Quality

6. Labour

7. Reduce Consumables

8. Reduced Production Costs

9. Reduction in Weld Distortion

10. Increased Competitive Advantage

Implementing a robotic welding solution can set companies apart from the competition by allowing for faster completion and delivery of products whilst ensuring consistent quality.



PEB SYSTEM
Has No End

PRIME QUALITY LONG LIFE

INFRA GREEN has pioneered steel roofing, metal buildings & steel structures in india over 21 years. Our buildings are not just eco-friendly, but also profitable in the long run. Our Green buildings entitle you to get Green ratings and certificates for your own project. Environmental Benefit - Our buildings are 100% steel which is recyclable up to 90%, this saves primary resources and reduces waste hence saves energy.

Ventilation system – Unique designs of our buildings help in proper air flow and temperature control thus providing healthy & comfortable indoor environment. We use bare or pre painted Galvalume with sleep slope ($>1:8$) - this minimizes the heat island effect.

We install 2-4% skylights on the roof of the total roof area of the building which reduces the need of artificial lights inside the building and saves electricity.

Our building help in reducing the carbon footprint by reducing the solid waste, improving air and waste quality and conserving natural resources by reducing the rate of consumption. We employ energy efficient methods in steel production that help to substantially reduce greenhouse gas emissions in our state of the art manufacturing facilities.

Pollution free and further recyclable - Even after demolition our buildings doesn't accumulate wastage like asphalt shingles, concrete, brick and dust in the environment and steel can be recycled for other applications.



MULTI STOREY BUILDING SYSTEM

MAKE IT HAPPEN...

MULTI LEVEL BUILDING SYSTEM

INFRA GREEN multi storey system allow you to build tall steel structures up to 8 storeys high. The steel frame construction designed by Infra Green simplifies complex engineering and can be used to build hotels, malls, corporate parks, airport, multi-level car parks etc.. These buildings are fire safe, earthquake resistant and energy efficient.

High Rise Buildings & Office spaces

Multi storey building from 23 m to 150 m height (high rise buildings) and Building above 150 m height(skyscrapers) High-rise steel structure can be made for any height as per project requirement and governing laws. Multistorey Steel Framing System offered as bolted structure made off site (from factory) using beam joist cold form deck slab and steel columns or composite columns.

INFRA GREEN Multi storey steel buildings have un-matched benefits like

- High strength to volume/mass ratio
- Speed in construction and time saving in comparison to RCC, resulting in early return on investment
- Steel frames are lighter in weight in comparison to RCC frame. Lighter foundations are required for steel buildings due to less weight than RCC resulting cost advantage over civil construction
- Occupies less space and can be designed for larger span/column free spaces, resulting greater coverage, this helps in large open office space and large auditorium and concerts hal



MEZZANINE Structural System

STEEL STRUCTURAL SOLUTIONS FOR INDUSTRIAL USE

Mezzanine floors are the most cost effective solution to utilize your building's space and it can be designed to support normal office traffic, or heavy machinery for industrial use. Inter-arch can customize the mezzanine floors to each specific need as required. Applications in Storage platform, Office space, Workshop area

Features:

1. Maximize cubic space utilization
2. Load Capacity from 300 kg/Sq. M
3. High quality anti corrosive materials
4. Save travel time to and from multiple locations
5. Save on new construction costs
6. Compact and clear presentation
7. Easily expanded, modified, or moved
8. Design Flexibility



INFRA GREEN Has Endless

FEATURES OF INFRA GREEN STEEL STRUCTURE

- 01 Use of hot rolled steel sections from 55 Mpa YS of various section such as H, I, C, L, U etc. to achieve max. Steel optimization
- 02 Hot rolled & Built-up section made out of Hot rolled plates of various thickness
- 03 Cold form metal decking system
- 04 Sheer stud to meeting concrete steel bonding need for composite construction
- 05 Corrosion resistant priming on steel frames/members.
- 06 High strength bolts for primary and secondary framing system with minimum 8.8 grade steel
- 07 Use of green materials to achieve high LEED rating



INFRA GREEN STRUCTURES

Grows with you

ADVANTAGES OF INFRA GREEN STRUCTURAL SYSTEM

- 01 Infra Green is capable of engineering and manufacturing extremely heavy loads
- 02 Large Clear Span structures upto 100M
- 03 On time delivery and minimum storage space for handling erection
- 04 Faster manufacturing and delivery being mass production at factory
- 05 Project structures are pre-designed and manufactured in a controlled factory environment resulting in higher quality of the building as well as faster construction
- 06 There are no increment in cost during the duration of the projects



STRUCTURAL STEEL

For Heavy Structures

1. Commercial Development:

- > Hospitals, Mall & Shopping Complex
- > Hotels
- > Multi-level car parkings
- > Auditorium Buildings
- > Warehouse Buildings
- > cold storages.

2. Road & Highway:

- > Flyovers
- > Bridges
- > Toll Booth
- > Bus-Stations

3. Power Generation & Distribution:

- > Power plant structure
- > Sub-Station Building
- > Refineries

4. Ports, Railways & Metro:

- > Metro Station
- > Station buildings
- > Metro Depots
- > Manufacturing plants

STRUCTURAL STEEL SYSTEM

FOR URBAN INFRASTRUCTURE



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