Let's Save Our Environment By Changing Our Building Technologies & Lifestyle.

Why India Needs to Change Quickly?

- Why move towards better construction technologies?
- What’s the need to change our lifestyles?
- Why we need smart cities and why we need them quick?
Economy

The Indian cities represent:

- 61% of gross domestic product (GDP)
- Hence cities are “Engines of Economic Growth”

Sub-Sectors in Construction:

- Real Estate
- Infrastructure

Construction Projection:

- **Real Estate** Sub-sector Projected To Reach INR13,250 Billion By 2023
- **Infrastructure** Sub-sector constitutes more than 40% Of The Construction Sector - Projected to Reach INR8674 Billion by 2023
**Economy**

**Construction Projection :**
- Urban population in India is expected to shoot up to 590 million by 2030.
- Even at current population levels, urban housing shortage is estimated to be more than 29 million.

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**Environment & Health**

**Indian Buildings account for:**
- Construction industry in India generates about **10-12 million tons** of Construction and Demolition (C&D) waste annually!
- These wastes generate huge **air pollution** and also makes the areas dirty, a garbage dump, which leads to **diseases.**
Construction Sector Risks

BEST APPROACH : GRIHA RATED GREEN BUILDINGS

- GRIHA, an acronym for Green Rating for Integrated Habitat Assessment, is the National Rating System of India.
- The basics benefits of following GRIHA rating system are:
  - Up to 30% reduction in energy consumption
  - Limited waste generation due to recycling
  - Less consumption of water
  - Reduced pollution load & liability
GREEN BUILDINGS

- Minimal disturbance to landscapes and site condition
- Use of Non-toxic Recycled and Environmental Friendly Building Materials

Use of Recyclable Materials

- Efficient use of Water and Water Recycling
- Use of Energy Efficient and Eco-Friendly Equipment
- Use of Renewable Energy
- Indoor Air Quality for Human Safety and Comfort
- Effective Controls and Building Management Systems

GAPS THAT WE NEED TO BRIDGE

- Green Buildings are perceived to take longer time to get constructed
- Green Buildings are perceived to be costlier than conventional buildings
- Green Buildings are perceived to be more complex for the layman to understand
Recyclable Steel Buildings

The Most Efficient Solution to Ease The Transition towards Green Buildings is:

Recyclable Multi-Storied Steel Buildings

Recyclable Multi–Storey Steel Buildings
Recyclable Steel Buildings

Recyclable Steel Buildings
Recyclable Steel Buildings

Benefits of Recyclable Steel Buildings

- Save more than 50% of Construction Time
- Very Easy Integration of Products listed in the GRIHA Catalogue
- Complete Design Flexibility to Achieve Green Building Ratings
- Can Mount Solar Panels on the Roof
- Recyclable, Relocatable
Benefits of Recyclable Steel Buildings

- 98% less water use
- Considerable reduction in lighting demand
- Considerable reduction in Air Conditioning demand
- Savings in energy and productivity gains resulted in approximately 7-year payback for green features

NEED FOR A CATALYST IN INDIA

SMART CITIES NEED TO BE DEVELOPED GREEN AND THAT TOO MUCH FASTER

RECYCLABLE STEEL BUILDING TECHNOLOGY IS THE BEST SOLUTION TO INDIA’S CONSTRUCTION CHALLENGES!

LET’S REJECT CONCRETE FOR SUPER-STRUCTURE
LET’S REJECT BRICK-MORTAR
LET US ADOPT RECYCLABLE STEEL TECHNOLOGY
THANK YOU

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