Green Affordable Housing

Technological Solutions for Cost-Effective and Energy-Efficient Housing.

By:

Vinay Kumar Tiwary
Technoculture Building Center
Green Buildings means...

Sustainable architecture

vs

PRODUCTIVE ARCHITECTURE
Possible Solutions?

Integration in design
Resource mapping
Technology
Skills
Resource Mapping

- Local Availability of building Materials.
- Manpower.
- Geo-Climatic Characteristics.
- Vernacular Architecture.
- Economics.
- Scalability
Green Bungalow or Green Resort

@ 650 / Sq Ft.
Green 1 BHK Flat

included Land with Development

Just @ 4 Lacs
50% Energy Free
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Design: Square Grid Pattern Design
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8" Cavity Wall by 50% Less Bricks & Mortar

- Reduces cost
- Enhances Insulation

Wall Exposed vein
Building Made with Above Technology G+2
BACTERIAL INDUCED CALCITE ANTI CORROSION TREATMENT
(BACILLUS PASTEURII + COW DUNG)
Interior Design with Scrape of Wooden from Industrial Packaging Material
Welded Wire Girder as Structural Steel
Drainage & Influent Treatment From Banana Toilet and Banana Production
SOLAR HYBRID AIRCONDITIONER

Save 60% Electricity
ROTATING SOLAR ROOF VS FIXED SOLAR ROOF
25% More Energy Production
Interlocking wall blocks

- Made of Waste Brick Field dust with Sludge Lime
- Good for Exposed Walling
- Reduces Weight of Structure, Cost and Finishing Cost as Well

We made 600 Duplexes in Ranchi-Jharkhand
For Mixed Income Categories
R.C.C FILLER SLAB WITH THERMOCOL

Reduces structural cost and provides Insulation

8" Slab for 25'x25' Span Hall without Intermediate beam
Ferrocement Three Storied

Hotel Unit with Egyptian Pyramidal Look

Low Cost | Locally Available Materials | Best for Resorts and Hotels

Saves 50-60% Concrete
Compressed Brick Pyramid With Top Ring Beam On Wall

- Required slope is just 5" to 15"
- Roof span up to 25' without Reinforcement
- Best for School Building, Community Halls Etc.

- Significantly Lower Cost
- Less Impact on Environment
Diagonal Brick Pyramid

- Zero Iron Structure
- This can be Constructed without Beam
- Cost Effective Construction
Waste Cement Bag

- Cement Bag filled with waste Sand and 5% Cement
- Pilled one Above Other and Low Cost
- Best Suited for Monumental Structure and Rural Housing
Green Bricks

- Baked not by coal but by poultry waste
- Bacterial treatment of poultry waste on source reduces the pathogenicity and odor of poultry waste.
- Casted as normal brick
- Calorific value of poultry waste is normally 60-70% of coal
- After burning Poultry waste it generates ash, rich in phosphorous, Potash, Calcium, Magnesium, Zinc etc.
- It acts as a very good fertilizer.

- Low cost
- Less Impact on Environment
Energy: Electricity And Fuel

- Pyrolysis of agro-waste to generate producer gas.
- Producer gas can be used directly for cooking food & electricity Generation
- Low cost green solution for electricity generation.
Thank you