HELPING HANDS  PREFABRICATED COMMUNITY HEALTH CENTER

Mission Statement:
The Community healthcare center project in India is to design a building that provides a relaxing environment with provision of quality healthcare services. The major goal of the project is to eliminate health disparities in the community by educating rural population on medical healthcare needs in a healthy and welcoming ambiance.

Goals:
- Creating a sense of belonging among people
- Designing the building with respect to nature
- Providing public spaces to conduct workshops on healthcare needs
- Developing sustainable architecture
- Developing relocatable techniques to protect buildings from flooding and maintenance

Background of Indian Rural Health Care System:
Indian rural healthcare system is divided into three tiers:
- Sub Centers
- Primary Health Centers
- Community Health Centers

Existing Conditions of few government hospitals in India:
- Staffed by 7 doctors and 500 nurses
- Poor living conditions

Demographics:

- Total Population: 118,247
- Male: 59,105
- Female: 59,142

Site and Context:
- Residential Area
- Commercial Area
- Industrial Area

Climate:
- Average Temperature
- Average Humidity

Design Evolutions - Part Diagrams:

Site Plan:
- Transportation of the Modules
- Elevation

Project History:
The Government of India has developed a plan to set up hospitals and health centers in several urban and regional centers across the country. This National Rural Health Mission is focused on strengthening health services at district and rural levels.

Design Problem:
- Indian Common man view on Government Hospital
- Concept: Blending nature with design to create spaces facilitating human interaction

Strategy:
- Integrating green spaces
- Providing more green space
- Trees replace fences
- Education
- Relax

Site Background:
Gauhati municipality is the 2nd largest in the Assam district of Assam Pradesh, India. It sprawls over an area of 122.4 sq. km with a population of 118,247. In 2011, it was one of the cities in the state to be a part of Assam Pradesh Capital Region.
Solar Panels
Solar Panels were installed all over the roof to reduce maintenance costs or electricity.

Gutter system
Excess rain water is drained in harvesting pits in central courtyards through gutter system.

Cement board for roof
24mm B30 cement board is used for roof along with water proof for sheet, and box sections were used in between for support.

Box section framing
Dimensions of Box section is 150mm x 300mm and beam depth is 300mm.

Light Steel Structure

Cement board for covering
External Facade

Aluminium framed Window

Tensile slab
It is a traditional Indian vernacular methodology available in India.