GeeCee Ventures Cloud 36

**Location**: Ghansoli, Navi, Mumbai
**Site Area**: 10,078.92 m²
**Built-up Area**: 34,171.10 m²
**Air-Conditioned Area**: 0 m²
**Non-Air-Conditioned Area**: 34,171.10 m²
**Typology**: Residential & Commercial building
**Energy Consumption Reduction**: 81.23% reduction in energy consumption compared to GRIHA benchmark
**EPI**: 25.43 kWh/m²/year
**GRIHA Provisional Rating**: 3 Star Rating (Version: 3.1)
**Year of Completion**: 2020

The following strategies were adopted to reduce the building impact on the natural environment:

- **Sustainable Site Planning:**
  - 1,008 m³ top soil was preserved within the site and reused for landscaping.
  - Site was screened with 3 m high barricading; wheel washing was provided for vehicles entering the site and water was sprinkled on site to control dust pollution.
  - Building orientation was such that the buffer spaces like staircases & service ducts were provided towards south & west of each block.

- **Water Management:**
  - Reduction of 31% from the GRIHA base case has been demonstrated in building water demand by installing water efficient fixtures.
  - Reduction of 37.49 % from the GRIHA base case has been demonstrated in the landscape water demand.
  - Hessian cloths were used for curing structural columns and ponding technique was used for curing of slabs.

- **Energy Optimization & Occupant Comfort:**
  - For achieving visual comfort:
    - More than 75% of the total living area is day-lit and meets the daylight factor as prescribed by SP 41.
    - 100% of the outdoor lights have been connected with automatic switches.
  - For achieving thermal comfort:
    - EPI reduction of 81.23% from the GRIHA base case has been demonstrated through the integration of high-performance systems.

- **Renewable Energy Technology installed on Site:**
  - 24 Solar hot water systems each of capacity 500 liters per day have been installed in the project.

- **Sustainable Building Materials:**
  - AAC blocks with 65% fly ash content by volume have been used in the project.
  - Kota stone and vitrified tiles were used as a flooring material in the building.

- **Waste Management:**
  - Multi-colored bins have been provided within the building to collect and segregate waste at source.
  - Central waste collection area has been provided for storage of segregated waste on site.

**Integrated Design Team:**

- **Client**: M/s. GeeCee Ventures Limited
- **Project Coordinator**: Mr. Milind Khandare, Gee Cee Ventures Limited
- **Principal Architect**: Architect Hafeez Contractor
- **Landscape Architect**: Arun kumar Designers and Consultants Pvt Ltd
- **Structural Consultant**: Mahimtura Consultants Pvt Ltd
- **Electrical Consultant**: Integrated Technical Services
- **Green Building Design and Certification**: VK:e environmental