SDB 7&8, Infosys Limited, Chennai

Location	: Chennai
Site Area	: 33599 SqM
Total Built up Area	: 59134 SqM
Air-conditioned Area	: 42950 SqM
Non Air-conditioned Area	: 16880 SqM
Energy Consumption Reduction	: 64% reduction from GRIHA benchmark
Water consumption reduction	: 73.1% reduction from GRIHA benchmark
EPI	: 40.80 kWh/SqM/year
Occupancy hours	: 8.5 hrs/day
Renewable energy installed on site	: 51.45 KWp
GRIHA Provisional rating	: 5 Stars

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

- **Sustainable Site Planning**:
  - Existing trees were preserved and native trees were planted on site
  - Excavation and construction started after the monsoon season to prevent soil erosion and soil run off from the site
  - Top soil was preserved and re-used during the construction period for landscaping
  - Construction activities were confined to pre-designated areas
- **Reduction in water consumption (compared to GRIHA benchmark):**
  - Reduction in building water consumption by use of low-flow fixtures : 73.1%
  - Water recycled and reused within the complex : 78%
  - Reduction in landscape water consumption by planting native species of trees and shrubs and by using efficient irrigation systems : 60%
- **Passive architectural design strategies adopted in the building**:
  - Recessed windows to cut direct sun rays and glare inside the building
  - 45.62% of living areas are day-lit and window to wall ratio restricted to less than 60%to reduce solar heat gain inside the building
  - Natural ventilation induced in the building
- **Reduction in energy consumption (compared to GRIHA benchmark) while maintaining occupant comfort**:
  - For achieving visual comfort
    - Energy efficient artificial lighting design is compliant with ECBC recommendations
    - Occupancy sensors in rooms to reduce energy consumption
    - External shading and efficient glazing to reduce solar heat gain and have glare-free daylight have been installed.
  - For achieving thermal comfort
    - Building envelope is ECBC compliant, which helps reduce cooling loads in AC spaces and meets thermal comfort levels in non AC spaces.
    - External shading and light shelves to cut glare and reduce solar heat gain
- **Renewable energy technologies installed on site**:
  - Installed capacity of wind energy : 51.45 KWp
- **Use of low-energy/green materials**:
  - Use of ceramic tiles and regionally available granite stone
  - Use of low energy material for internal partitions, paneling, false ceiling and in-built furniture
  - Use of Post-Tensioned slabs in the building structure

Integrated Team:

Project Owner	: Infosys Limited.
Project Head Infrastructure	: Rohan.M.Parikh
Principal Architect	: M/s C.R.Narayana Rao Architects & Engineers
Landscape Architect	: M/s MASTERPLAN Landscape Architects
Civil Contractors	: Sobha Developers Ltd.
Structural Consultant	: TRC Engineering (I) Pvt. Ltd.
Electrical Consultant	: Sobha Developers Ltd.
HVAC consultant	: ARCO
Green Facilitation:	Environmental Design Solutions