SDB 1, Infosys Limited, Hyderabad

Location	: Hyderabad
Site area	: 64,806.92 m^2
Built-up area	: 24,730 m^2
Air-conditioned area	: 17,338 m^2
Non-Air-conditioned area	: 7,392 m^2
Energy consumption reduction	: 56% reduction from GRIHA benchmark
Water consumption reduction	: 56% reduction from GRIHA benchmark
EPI	: 51.85 kWh/SqM/year
Occupancy hours	: 8.5 hrs/day
Renewable energy installed on site	: 44 KWp
GRIHA 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 runoff from the site
  - Top soil was preserved and reused 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 : 56%
  - 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 : 53%
- **Passive architectural design strategies adopted in the building**:
  - The building's longer axis is oriented on the East – West axis in order to reduce solar heat gain
  - 78.54% of living areas are day-lit and window to wall ratio restricted to less than 38% 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
    - Radiant cooling technology has been installed
    - External shading and light shelves to cut glare and reduce solar heat gain
- **Renewable energy technologies installed on site:**
  - Installed capacity of Solar energy : 44 KWp
- **Use of low-energy/green materials:**
  - Use of ceramic tiles and carpets with recycled content
  - Use of low energy material for internal partitions, paneling, false ceiling, and in-built furniture

Integrated Design Team:

Project Owner	:	Infosys Limited
Project Head Infrastructure	:	Rohan M Parikh
Principal Architect	:	Sundaram Architects Pvt Ltd
Landscape Architect	:	M/s MASTERPLAN Landscape Architects
Green Facilitation	:	AECOM