Central Information Commission

Location: CIC Bhawan, Baba Gang Nath Marg, Munirka, New Delhi

Site Area: 4653 m²
Built-up Area: 9770 m²
Typology: Office Building

Energy Consumption Reduction: 60.3% reduction in energy consumption compared to GRIHA benchmark

Energy Performance Index (EPI): 55.5 kWh/m²/year

Renewable Energy: Rated capacity of solar PV installed is 35 kWp

GRIHA Provisional Rating: 4 Stars
Year of Completion: 2017

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

❖ Sustainable Site Planning:
- Natural topography of site was not hampered for construction activities; site services were planned according to the natural contours of site.
- Existing mature trees were preserved and additional native trees were planted on site.
- Top soil was preserved during construction which was later re-applied for landscaping work.
- Solar passive design strategies were adopted in the building. Narrow openings were provided for air to enter on each floor and after being heated up in the interior spaces; hot air would move up and released with the help of axial fans from the terrace.

❖ Water management:
- Reduction of 50% from the GRIHA base case has been demonstrated in building water use by installing water efficient flush and flow fixtures.
- Sewage treatment plant was provided for 100% waste water treatment on site.
- Drip and sprinkler irrigation system are used on site to achieve water efficiency in landscaping.

❖ Energy Optimization:
- Artificial lighting design has been done as per NBC norms.
- External shading with a combination of vertical fins and jaalis has been provided to restrict heat and glare through window openings.
- Double glazing units with optimum shading have been used to minimize heat gain in the internal spaces.
- Occupancy and daylight sensors are used to minimize energy waste.

❖ Renewable Energy Technology installed on site:
- 35 kWp solar PV panels have been installed on site.
- Solar street lights have been installed on site for outdoor lighting.

❖ Renewable Energy Technology installed on site:
- Autoclaved Aerated Concrete (AAC) blocks have been used for external walls.
- Natural stone such as Kota stone and materials such as vitrified tiles, gypsum board and glass with recycled content constituted the low-energy material component in the interior spaces.

Integrated Design Team:

Client: Central Information Commission
Project Coordinator: Sakul Khanna, Renu Khanna & Associates
Principal Architect: Renu Khanna, Renu Khanna & Associates
Landscape Architect: Ritika Khanna, Renu Khanna & Associates
Project Management Consultant: National Building Construction Corporation (NBCC)
Structural Consultant: I C Syal, Syal & Associates
Electrical Consultant: Renu Khanna & Associates
Green Building Design and Certification: Scube Solutions