



Dr Shyama Prasad Mukherjee Civic Centre and Pratyaksha Kar Bhavan

Location	: New Delhi
Site area	: 51,974.90 m ²
Built-up area	: 1,88,432.60 m ²
Air-conditioned area	: 68,273.5 m ²
Non Air-conditioned area	: 1,20,159.1 m ²
Energy consumption reduction	: 17.16% reduction in energy consumption compared to GRIHA benchmark
EPI	: 90.1 KWh/ m ² /year
Renewable Energy	: Rated capacity of solar PV installed on site is 0.00 KWp
GRIHA provisional rating	: 2 stars
Year of completion	: 2010 and 2012

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

- ➊ **Sustainable site planning:**
 - Project has preserved top soil and landscape during construction. Efficient outdoor lighting and utilities were planned efficiently. Basic facilities were provided to workers during construction.
- ➋ **Reducing water consumption:**
 - Project has installed automatic shut off faucets, low flow urinals and water closets. Use of recycled water for landscaping and flushing.
- ➌ **Reducing energy consumption (compared to GRIHA benchmarks) while maintaining occupant comfort:**
 - Use of sensors for indoor lighting, thermostat in spaces, energy efficient hvac systems with 100% vfd/vsps and electrical equipment's. Use of DGU to reduce heat gain and design of buffer spaces to reduce gain. Timer controlled outdoor basement lighting.
 - For achieving visual comfort:
 - Maximum use of daylight in working area and daylight /occupancy sensors.
 - For achieving thermal comfort: thermostat in spaces and use of insulated building materials.
- ➍ **Use of low energy materials:**
 - Use of various low energy materials like flooring, gypsum ceiling and plaster. Use of fly ash in bricks and cement. Use of mdf partition boards and low energy modular furniture.

Integrated Design Team:

Client	: Municipal Corporation Delhi And Income Tax Department
Project Coordinator (MCD Portion)	: Mr Santosh Kumar
Project Coordinator (Income Tax Portion)	: Mr H N Thakur
Principal Architect	: Shirish Malpani and Associates
Project Management Consultant	: Engineering Projects (India) Ltd (A Government Of India Enterprise) and Gherzi Eastern Limited
Green Building Design and Certification	: The Energy and Resources Institute