Headquarters Building for Unique Identification Authority of India (UIDAI)

- **Location**: New Delhi
- **Site Area**: 4447.51 m²
- **Built-up Area**: 8634.81 m²
- **Air-Conditioned Area**: 4722.30 m²
- **Non-Air-Conditioned Area**: 3912.51 m²
- **Typology**: Commercial (Office Building)
- **Energy Consumption Reduction**: 62.2% reduction in energy consumption compared to GRIHA benchmark
- **Energy Performance Index (EPI)**: 52.57 kWh/m²/year
- **Renewable Energy**: Rated capacity of solar PV installed is 100 kWp
- **GRIHA Provisional Rating**: 5 stars
- **Year of Completion**: 2018

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

- **Sustainable Site Planning**:
  - Top soil was preserved and re-applied in landscape and a part of it was donated to nursery for appropriate use.
  - Air pollution control measures such as site barricading, coverage of dusty material, wheel washing and water sprinkling were implemented during construction.

- **Water Management**:
  - Reduction of more than 40% from the GRIHA base case has been demonstrated in landscape water demand through use of highly efficient drip irrigation system.
  - Reduction of 54% from the GRIHA base case has been demonstrated in building water use by installing water efficient flush and flow fixtures.
  - 100% storm water is being recharged into the ground through rain water recharge system.

- **Energy Optimization**:
  - High efficacy lamps are installed for exterior lighting which is operated by timer controller.
  - EPI reduction of 62.2% from GRIHA benchmark has been demonstrated.
  - 75% of the habitable spaces are day lit and meet the daylight factors prescribed by the National Building Code of India.
  - 100 kWp solar PV panels have been installed on site.

- **Sustainable Building Materials**:
  - Fly-ash bricks and AAC blocks have been used in the project to reduce embodied energy of the building.
  - Pozzolana Portland Cement with 34.4% fly-ash content by weight has been used in plaster and masonry mortar.
  - Use of low energy flooring, false ceiling and paneling has been demonstrated.

**Integrated Design Team**:

- **Client**: Unique Identification Authority of India
- **Principal Architect**: Sikka Associates Architects
- **Landscape Architect**: Sikka Associates Architects
- **Structural Consultant**: Mehro Consultants
- **Electrical Consultant**: Sikka Associates Architects
- **Green Building Design and Certification**: Sikka Associates Architects