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

**Sustainable Site Planning:**
- Air pollution control measures such as site barricading, wheel washing facility and other appropriate measures were strictly adhered to during construction.
- Out of 130 existing mature trees on site, 20 trees were cut. 1000 new trees were planted on site.
- 750 m³ of fertile top soil was preserved on site.

**Water Management:**
- Reduction of 52.58% from the GRIHA base case has been demonstrated in the building water demand by installing efficient low-flow fixtures.
- Reduction of 44.3% from the GRIHA base case has been demonstrated in the landscape water demand by installing efficient irrigation systems.
- Gunny bags were used for curing of columns and ponding technique was used for curing of slabs.

**Energy Optimization and Occupant Comfort:**
- For achieving visual comfort:
  » 76.58% of the regularly occupied spaces are day-lit and meet the daylight factor as prescribed by NBC 2005.
  » Digital timer control has been provided for 100% of the outdoor lighting system.
- For achieving thermal comfort:
  » EPI reduction of 74.69% from the GRIHA base case has been demonstrated through the integration of high performance systems.

**Renewable Energy Technology installed on site:**
- Solar photovoltaic system of capacity 151.2 kWp has been installed.

**Sustainable Building Materials:**
- AAC blocks have been used for walling in the project.
- Vitrified tiles, granite and LVT flooring have been used as flooring materials in the project.
- Gypsum boards and MR grade boards have been used as false ceiling materials in the project.

**Waste Management:**
- Multi-colored bins have been provided for segregation of biodegradable, non-biodegradable and hazardous/electronic waste.
- Central waste collection area has been provided for storage of segregated waste on site.
- Moving Bed Biofilm Reactor (MBBR) type STP of 300 kLD capacity has been installed in the project.

**Integrated Design Team:**
- **Client:** KL University, Vijayawada
- **Principal Architect:** Design Haaus Solution Pvt. Ltd
- **Landscape Architect:** AP Nurseries and Garden Consultants
- **Green Building Design and Certification:** Terra Viridis Consultants LLP