



## AIPL Joy Street

<b>Location</b>	: Gurugram, Haryana
<b>Site Area</b>	: 16,010.15 m <sup>2</sup>
<b>Built-up Area</b>	: 30,931 m <sup>2</sup>
<b>Typology</b>	: Mixed use building
<b>Energy Consumption Reduction</b>	: 43.12% reduction in Energy Consumption compared to GRIHA benchmark
<b>EPI</b>	: 106.39 kWh/ m <sup>2</sup> /year
<b>GRIHA Provisional Rating</b>	: 4 Star Rating (Version: 3.1)
<b>Year of Completion</b>	: 2020

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

### 🌱 Sustainable Site Planning:

- Air pollution control measures such as site barricading, water sprinkling on fine construction materials and other appropriate measures were strictly adhered to during construction.
- Existing mature trees on site were preserved and 92 new trees were planted.

### 💧 Water Management:

- Reduction of 52.84% from the GRIHA base case has been demonstrated in the building water demand by installing efficient low-flow fixtures.
- Reduction of 53.43 % 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:
  - » 97.90% of the regularly occupied spaces are day-lit and meet the daylight factor as prescribed by NBC 2005.
  - » Digital timer has been provided for 100% of the outdoor lighting system.
- For achieving thermal comfort:
  - » EPI reduction of 43.12% 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 80 kWp has been installed.

### 🏠 Sustainable Building Materials:

- Pozzolana Portland cement with 33.98% fly-ash content by weight has been used in plaster and masonry mortar.
- Vitrified tiles, granite, kota stone, carpet flooring and ceramic tiles have been used as flooring materials in the project.
- 100% of the materials used for internal doors, windows and frames are low energy.

### ♻️ Waste Management:

- Multi-colored bins have been provided for segregation of dry & wet waste.
- Central waste collection area has been provided for storage of segregated waste on site.
- Organic waste converter of capacity 350kg/day has been installed on site to treat bio-degradable waste.

### Integrated Design Team:

<b>Client</b>	: Advance India Projects Limited
<b>Principal Architect</b>	: Design Forum International
<b>Landscape Architect</b>	: Design Accord Landscape Architecture Interiors industrial Design
<b>Structural Consultant</b>	: Mehro Consultants
<b>Electrical Consultant</b>	: Electrical Consulting Engineers
<b>Green Building Design and Certification</b>	: GreenTree Building Energy Pvt. Ltd.