



## Engineers India Ltd Campus

<b>Location</b>	: Gurugram
<b>Site Area</b>	: 41701.6 m <sup>2</sup>
<b>Built up Area</b>	: 32837 m <sup>2</sup>
<b>Air-conditioned Area</b>	: 21000 m <sup>2</sup>
<b>Non Air- conditioned Area</b>	: 11837 m <sup>2</sup>
<b>Typology</b>	: Commercial
<b>Energy Performance Index (EPI)</b>	: 56.03%
<b>Renewable Energy installation</b>	: 90 KWp solar PV panels
<b>GRIHA provisional rating</b>	: 5 Stars
<b>Year of completion</b>	: 2016

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

### 📍 Sustainable Site Planning:

- Top soil was preserved, stabilized and mulched.
- Existing trees were protected.

### 📍 Water management:

- Reduction of 66.7% from the GRIHA base case has been demonstrated in building water use by installing water efficient flush and flow fixtures.
- 225 KLD MBBR STP plant has been installed on site to cater to the waste water.
- Recycled water is being used for flushing; irrigation and cooling tower make up water.

### 📍 Energy Optimization:

- Longer sides of most of the building blocks are facing Northern and Southern direction.
- Regularly occupied spaces such as open office, cabins etc. have been placed along the Northern facade to ensure glare free natural light and Southern side has been utilized for service areas such as AHUs, Restrooms, and buffer spaces such as conference rooms, meeting rooms etc. to minimize the heat gain into the building.
- Window to wall ratio has been maintained in the range of 35% to 40% with provision of shading and use of high efficient glazing.
- 60.15% of total living space is day-lit and meets the daylight factors as prescribed by the National Building Code of India.
- 90kWp solar photovoltaic (PV) Plant has been installed to reduce the dependence on fossil fuels.
- The project is generating sufficient electricity to offset 27.65% of internal lighting consumption.
- Energy Performance Index (EPI) of the project is 48.68 kWh/ m<sup>2</sup>/year

### 📍 Sustainable Building Materials:

- 100% of materials used in sub-assembly/internal partitions/false ceilings in the project are low-energy such as Gyproc false ceiling, gyproc partition walls with veneer paneling

### Integrated Design Team:

<b>Client</b>	: Engineers India Limited
<b>Project Coordinator</b>	: Engineer India Limited
<b>Principal Architect</b>	: Mr. Rahul Kumar, Rajinder Kumar & Associates
<b>Landscape Architect</b>	: Integral Designs International Studio Pvt. Ltd.