



## Patna Divisional Office - 1, LIC of India, Jeevan Prakash Building, Patna



<b>Location</b>	: Patna, Bihar
<b>Site Area</b>	: 3.861.76 sq.m.
<b>Built up Area</b>	: 6,638.53 sq.m.
<b>Typology</b>	: Commercial
<b>Rating Category</b>	: GRIHA for Existing Buildings (EB)
<b>Version</b>	: V1
<b>Date of Award</b>	: 19 September 2024
<b>Client</b>	: LIC of India
<b>Green Building Consultant</b>	: Green Sketch Consultants

The following strategies were adopted by the project teams to reduce the impact of the existing building on the environment:

### Site Parameters:

- Availability of amenities such as ATM, restaurant, multiple purpose store, gym and public transit stop within 500 meters walking distance from the main entrance of the project.
- 12 numbers of EV charging points were provided in the parking area for electric vehicles.
- Strategies implemented over 2,798.81 sq.m. of site were to reduce the Urban Heat Island Effect.

### Maintenance, Green Procurement and Waste Management:

- Environment friendly cleaning chemical and pest control products were used for housekeeping purpose.
- Centralized storage facility was provided at site level to collect the segregated waste on site.

### Energy:

- Installation of LED lights and efficient fans have reduced the annual energy consumption from 64,663 kWh/year to 45,907 kWh/year demonstrating a reduction of 29.01% from the total energy consumption.
- Solar photovoltaic system proposed of 30 kWp to generate 31,127 kWh of renewable energy.

### Water Efficiency:

- Building water consumption was reduced from 1,430 kL/year to 1,001 kL/year demonstrating a reduction of 30% from the total energy consumption.

### Human Health and Comfort:

- Artificial lighting levels= 301 - 312 lux and Indoor noise levels: 38 - 38 dB; were compliant with benchmarks of the Indian Model for Adaptive comfort and NBC 2005.

### Social Benefits

- Display of environmental awareness posters in the common areas.
- No smoking signages were placed at multiple locations in the building.