



## Indian Oil Bhawan, Chandigarh, Punjab



<b>Location</b>	: Chandigarh, Punjab
<b>Site Area</b>	: 3,955 sq.m.
<b>Built up Area</b>	: 2,655 sq.m.
<b>Typology</b>	: Commercial
<b>Rating Category</b>	: GRIHA for Existing Buildings (EB)
<b>Version</b>	: V1
<b>Date of Award</b>	: 12 September 2024
<b>Client</b>	: Indian Oil Bhawan
<b>Green Building Consultant</b>	: Tectonic project services

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

### Site Parameters:

- Amenities such as ATM and park are within 500 meters of walking distance from the main entrance of the project and doctor room, canteen facility and creche room are provided within the project.
- Preferred parking was provided for electric vehicles and bicycle parking are provided in the project.
- Strategy such as paving of hard paved areas with SRI >50% was implemented over 1,694.04 sqm. (52%) of site area 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:

- Energy consumption reduced from 75,26,483.76 kWh/year to 59,58,751.41 kWh/year (i.e., 20.83%).
- Solar photovoltaic system of 60 kWp capacity has been installed in the project.

### Water Efficiency:

- Building water consumption was reduced from 870.75 kL/year to 266.24 kL/year, demonstrating a 69.42% reduction through the installation of low-flow fixtures.
- Landscape water consumption was reduced from 2,198.26 kL/year to 574.00 kL/year, demonstrating a 73.89% reduction through the use of native and adaptive plant species.

### Human Health and Comfort:

- 45% of living area meets the daylight factor requirements as prescribed in SP41.

### Social Benefits

- Display of environmental awareness posters in the building interiors.
- T-shirt made out of recycled PET bottle has been displayed in the reception lobby.