



HCL Madurai, Tamil Nadu



Location	: Madurai, Tamil Nadu
Site Area	: 27,316.28 sq.m.
Built up Area	: 52,579 sq.m.
Typology	: Commercial
Rating Category	: GRIHA for Existing Buildings (EB)
Version	: V1
Date of Award	: 25 June 2024
Client	: HCL Technologies
Green Building Consultant	: Firstgreen Consulting

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

Site Parameters:

- Preferred parking was provided for electric vehicles.
- Strategies implemented over 14,270 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:

- 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 381 kWp capacity has been installed in the project.

Water Efficiency:

- Building water consumption was reduced from 27,475.08 kL/year to 4,997.70 kL/year, demonstrating an 81.81% reduction through the installation of low-flow fixtures.
- Landscape water consumption was reduced from 17,483.61 kL/year to 4,889.32 kL/year, demonstrating a 72.03% reduction through the use of native and adaptive plant species.
- STP of MBBR technology of 200 kLd has been installed in the project.

Human Health and Comfort:

- Artificial lighting levels and Indoor noise levels: 33 - 44 dB; were compliant with benchmarks of the Indian Model for Adaptive comfort and NBC 2005.
- 69% of living area meets the daylight factor requirements as prescribed in SP41.

Social Benefits

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