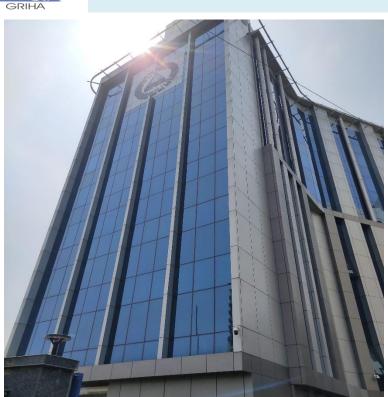


# NLC India Limited Registered Office, Chennai, Tamil Nadu



Location : Chennai, Tamil Nadu

Site Area : 1,463.88 m²
Built up Area : 3,038.17 m²
Typology : Commercial

Rating Category : GRIHA Provisional Rating

Version : Version 2015

Year of Award : 2023

Client : NLC (India) Ltd.
Integrated Design Team : GA Architects Pvt Ltd

**Green Building Consultant**: TransGreen Sustainability Solutions



The following strategies were adopted by the project team to reduce the building impact on the environment:

#### **Site Planning & Construction Management:**

- 34.70% of the site surfaces that are visible to sky have been treated through soft paving, shading through trees and high SRI tiles have been applied at the rooftop.
- Provision of 3-metre-high barricading, gravel bed, covering of fine aggregates and imperviousness platform for hazardous materials at site.
- Plantation of native species has been increased by more than 25% than the preconstruction phase.

#### **Energy:**

- Project has achieved an EPI reduction of 36%. The base case value considered for EPI is 90 kWh/sqm/year and design case is 57.46 kWh/sqm/year through integration of high-performance systems. Astronomical timer control has been provided for 100% of the outdoor lighting system.
- 8.77% of energy offset through installation of Solar photovoltaic system of capacity 10.4 kWp.

# **Occupant Comfort:**

 72.42% of the regularly occupied spaces are day-lit and meet the daylight factor as prescribed by SP 41.

#### Water:

- Reduction of 70.65% from the GRIHA base case of 2,105.6 KL and design case of 617.98 KL has been demonstrated in the building water demand by installing efficient low-flow fixtures.
- Reduction of 90% from the GRIHA base case of 317.13 KL and design case of 31.31 KL has been demonstrated in the landscape water demand by planting native vegetation.

# **Sustainable Building Materials:**

- 31.04% reduction in the embodied energy of the project by using AAC blocks in masonry.
- Vitrified tiles, kota stone, granite, FSC certified wooden flooring and ceramic tiles have been used as flooring materials in the project.

# **Solid Waste Management:**

Dedicated space for storage of segregated waste has been provided in the project both at building and site level.