

Corona Optus, Gurgaon, Haryana



Location : Gurgaon, Haryana
Site Area : 5,546.45 m²
Built up Area : 9,836.07 m²
Typology : Residential

Rating Category : GRIHA Provisional Rating

Version : Version 2015

Year of Award : 2023

Client : Mr. Vijay Gupta, Corona Housing Private Limited

Integrated Design Team : Ar. Bhupendera Saha, Saha & Associates

Green Building Consultant : Udit Gaurav



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

Site Planning & Construction Management:

- 50.69% 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.
- Insolation analysis for summer months demonstrating 99.80% reduction against the base case.
- Total 800 m³ soil was excavated and same was reused on site for landscaping.

Energy:

- EPI reduction of 30% from the GRIHA base case has been demonstrated through the integration of high-performance systems.
- Astronomical timer control has been provided for 100% of the outdoor lighting system.
- Solar photovoltaic system of capacity 40 kWp has been installed.

Occupant Comfort:

• 65% of the regularly occupied spaces are day-lit and meet the daylight factor as prescribed by SP 41.

Water:

- Reduction of 52.44% from the GRIHA base case has been demonstrated in the building water demand by installing efficient low-flow fixtures.
- Reduction of 40.30% from the GRIHA base case has been demonstrated in the landscape water demand by installing efficient irrigation systems such as micro drip irrigation and sprinklers.
- Moving Bed Biofilm Reactor (MBBR) type STP of 700 KLD capacity has been installed on site.

Sustainable Building Materials:

- 11% 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.