



Extension of Terminal Building at Surat Airport, Gujarat



Location	: Surat, Gujarat
Site Area	: 40,630.2 sqm.
Built up Area	: 17,376.76 sqm.
Typology	: Commercial
Rating Category	: GRIHA Provisional Rating
Version	: Version 2015
Year of Award	: 2025
Client	: Airports Authority of India
GreenBuilding Consultant	: I-NAT Global

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

Sustainable Site Planning:

- Availability of amenities such as bus stop, restaurant, creche, pharmacy and ATM are located within the project and also available within 500 m from the project entrance.
- Building has been designed in such a manner that it does not obstruct the solar access to the neighbouring buildings.

Energy:

- EPI reduction of 63.2% from the GRIHA base case has been demonstrated through the integration of high-performance systems.
- Solar photovoltaic system of capacity 140 kWp has been installed..

Occupant Comfort:

- 64.14% of the regularly occupied spaces are day-lit and meet the daylight factor as prescribed by NBC 2005.

Water Management:

- More than 68.62% reduction from the GRIHA base case has been demonstrated in the building water demand by installing efficient low-flow fixtures.
- Reduction of 52.16% from the GRIHA base case has been demonstrated in the landscape water demand by installing efficient irrigation systems.

Sustainable Building Materials:

- Structural concrete minimum 25% replacement of OPC (Ordinary Portland Cement) with fly ash by weight of cement in building's structural system.
- Granite and kota stone have been used as flooring materials in the project.
- Gypsum false ceiling has been used as false ceiling in the project

Waste Management:

- Centralized waste collection facility has been provided in the project.
- Multi-colored bins have been provided for segregation of different types of waste.