



Gujarat Cancer and Research Institute, Ahmedabad



Location	: Ahmedabad, Gujarat
Site Area	: 10,725 sqm.
Built up Area	: 23,775 sqm.
Typology	: Hospital building
Rating Category	: GRIHA Provisional Rating
Version	: Version 3.1
Year of Award	: 2022
Client	: The Gujarat Cancer Society
Integrated Design Team	: HCP Design Planning Management Private Limited
Green Building Consultant	: Godrej Green Building Consultancy Services

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

Sustainable Site Planning:

- Excavated fertile top soil on site was preserved and re-used for landscape purpose at later stage.
- Roads have been minimized and pedestrian pathways were shaded. Additionally all utility corridors have been aggregated.

Energy:

- Automatic timer based control has been installed for 100% of outdoor lighting.
- 44.55% of the regularly occupied spaces are daylit and meet the daylight factor as prescribed by NBC 2005.
- EPI reduction of 78.86% from the GRIHA base case has been demonstrated through the integration of high performance systems.

Water Management:

- Native and adaptive species have been used for landscaping.
- Reduction of 50.98% from the GRIHA base case has been demonstrated in the building water demand by installing efficient low-flow fixtures.
- Hessian cloth were used for curing of columns and ponding technique was used for curing of slabs.

Renewable Energy Technology installed on site:

- Solar photovoltaic system of capacity 30 kWp has been installed.
- Solar hot water system generated 80,000 kl of hot water per annum.

Sustainable Building Materials:

- AAC blocks have been used for walling in the project.
- Bioguard and gypsum have been used as false ceiling materials.
- 88.54% of the materials used for internal doors, partitions, paneling, false ceiling, windows and frames are low energy.

Waste Management:

- Multi-colored bins have been provided for segregation of dry & wet waste.
- Central waste collection area has been provided for storage of segregated waste on site.