



# Zydus Sitapur Hospital, Ahmedabad



<b>Location</b>	: Ahmedabad, Gujarat
<b>Site Area</b>	: 11,202 sq.m.
<b>Built up Area</b>	: 11,446.20 sq.m.
<b>Typology</b>	: Hospital building
<b>Rating Category</b>	: GRIHA Provisional Rating
<b>Version</b>	: Version 2015
<b>Year of Award</b>	: 2022
<b>Client</b>	: Maruti Suzuki India Ltd.
<b>Integrated Design Team</b>	: HM Architects
<b>Green Building Consultant</b>	: Savvy Greens

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

### Sustainable Site Planning:

- Air pollution control measures such as site barricading, wheel washing facility, and covering of loose construction materials were strictly adhered to during construction.
- 53.76% of the site surfaces that are visible to sky have been soft paved and treated using china mosaic.

### Energy:

- 78% of the regularly occupied spaces are day-lit and meet the daylight factor as prescribed by NBC 2005.
- EPI reduction of 52.41% from the GRIHA base case has been demonstrated through the integration of high performance systems.

### Water Management:

- Reduction of 59.36% from the GRIHA base case has been demonstrated in the building water demand by installing efficient low-flow fixtures.
- Reduction of 78.67% from the GRIHA base case has been demonstrated in the landscape water demand by installing efficient irrigation systems.
- Gunny bags 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 46 kWp has been installed.

### Sustainable Building Materials:

- AAC blocks have been used for walling in the project.
- Pozzolana Portland cement with 35% pozzolana content by weight has been used in plaster and masonry mortar.
- Pozzolana Portland cement with 34% pozzolana content by weight has been used in structural concrete.

### Waste Management:

- Multi-colored bins have been provided for segregation of dry & wet waste.
- A dedicated place has been provided in the basement to store segregated waste prior to disposal.