



Gratitude EcoVilla, Puducherry



Location	: Puducherry, Tamil Nadu
Site Area	: 306.10 m ²
Built up Area	: 474.00 m ²
Typology	: Residential
Rating Category	: SVA GRIHA Final Rating
Version	: Version 2.2
Year of Award	: 2022
Client	: Mr. Prabodh Doshi and Mrs. Roma Doshi
Integrated Design Team	: Ms. Trupti Doshi (Auroma Architecture)

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

Landscape:

- 83.25% of the hard paved area is treated by means of grass paving.

Architecture & Energy:

- 92.86% of the total living area is day-lit.
- LPD of the project is 3.22 W/m², which is lower than the ECBC specified limit of 7.50 W/m² for residential buildings.
- All fans installed in the building are BEE 5-star rated.
- Thermal efficiency of the building envelope is 450.22 ft²/TR, which is higher than the threshold of 350 ft²/TR.

Water and Waste:

- Reduction of 76.79% from the SVA GRIHA base case has been demonstrated in the landscape water demand by the use of native plant species.
- Reduction of 50.19% from the SVA GRIHA base case has been demonstrated in building water demand by installing low-flow plumbing fixtures.
- 100% of the organic waste has been treated on site.

Sustainable Building Materials:

- PPC has been used for structural concrete, masonry mortar and plaster.
- Reduction of 41.35% from the SVA GRIHA base case has been demonstrated in embodied energy by using AAC blocks for constructing external and internal walls.
- Low VOC and lead free paints have been used to maintain good indoor air quality.

Lifestyle:

- Basic amenities such as grocery store, ATM, park, pharmacy restaurant, community centre, school and place of worship are in close proximity to the site.
- Dedicated toilet and resting room were provided for service staff in the project.
- Reclaimed wood has been used in the project interiors.
- Environmental awareness signage's have been displayed at various locations.