



Six Bungalows for Hon. Judges at Nyayamurtinagar High Court Campus

Location	: Nyayamurtinagar, Aurangabad
Site Area	: 3,230 m ²
Built up Area	: 417.45 m ²
Typology	: Residential
SVAGRIHA Rating	: 4 Star Rating
Year of completion	: 2020

The following strategies were adopted to reduce building impact on the natural environment:

📍 **Landscape:**

- 100% of the existing mature trees have been preserved on site.
- 57.91 % of total paved area on site is soft or shaded with trees to reduce the urban heat island effect.

📍 **Architecture & Energy:**

- 91.96% of the total living area is day-lit.
- LPD of the project is 7.42 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 3-star rated.

📍 **Water and Waste:**

- Reduction of 45.52% from the SVAGRIHA base case has been demonstrated in the landscape water demand.
- Reduction of 39% from the SVAGRIHA base case has been demonstrated in building water demand by installing low-flow plumbing fixtures.
- Rainwater storage tank of 25,000 litres capacity has been constructed on site.

📍 **Sustainable Building Materials:**

- PPC has been used for 100% structural concrete, masonry mortar and plaster.
- Low VOC and lead free paints have been used to maintain good indoor air quality.
- Reduction of 34.09% from the SVAGRIHA base case has been demonstrated in embodied energy by using AAC blocks for constructing external and internal walls.

📍 **Lifestyle:**

- Dedicated resting room and toilets have been provided for service staff.
- Basic amenities such as grocery store, ATM, restaurant, gym and pharmacy are located within walkable distance from the site.
- Electric charging point has been provided to encourage the use of electric cars and reduce carbon emission.

📍 **Waste Management:**

- Multi-colored bins have been provided for segregation of dry and wet waste.

Integrated Design Team:

Client : Executive Engineer, Public Works (West) Division
Aurangabad, Government of Maharashtra

Principal Architect : Shri. Sanjay Gedam, Chief Architect ,M.S. P.W.D, Mumbai

Green Building Consultant : Gadin Consultancy and Co.