



## Construction of Sub Divisional Office Building At Himayatnagar, Tq Bhokar. Dist - Nanded



<b>Location</b>	: Himayatnagar, Nanded
<b>Site Area</b>	: 1,514.99 m <sup>2</sup>
<b>Built up Area</b>	: 331.13 m <sup>2</sup>
<b>Typology</b>	: Commercial
<b>Rating Category</b>	: SVA GRIHA Final Rating
<b>Version</b>	: Version 2.2
<b>Year of Award</b>	: 2022
<b>Client</b>	: PWD, Government of Maharashtra
<b>Integrated Design Team</b>	: Shri. S. V. Gedam DY, Chief Architect
<b>Green Building Consultant</b>	: Gadin Consultancy and Co.

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

### Landscape:

- 29 new native trees have been planted on site.

### Architecture & Energy:

- 96.6% of the total living area is day-lit.
- LPD of the project is 5.94 W/m<sup>2</sup>, which is lower than the ECBC specified limit of 10.80 W/m<sup>2</sup> for office buildings.
- All air- conditioners and fans installed in the building are BEE 5-star rated.
- Solar PV system of 5 kWp has been installed.

### Water and Waste:

- Reduction of 65.49% from the SVA GRIHA base case has been demonstrated in building water demand by installing low-flow plumbing fixtures.
- Rainwater storage tank of 3.2 kLd capacity has been constructed on site.

### Sustainable Building Materials:

- Reduction of 45.87% from the SVA GRIHA base case has been demonstrated in embodied energy by using Reinforced Cement Concrete (RCC) slabs and Autoclaved aerated concrete (AAC) blocks.
- Low VOC and lead-free paints have been used to maintain good indoor air quality.
- Granite and vitrified tiles have been used as flooring material.

### Lifestyle:

- Most of the basic amenities such as departmental store, ATM, school, restaurant, pharmacy and community centre are in close proximity to the site.
- Environmental awareness signage's have been displayed at various locations.
- Electric charging point has been provided to encourage the use of electric vehicles and reduce carbon emission.

### Waste Management:

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