



PWD Division & Sub Division Office Building

Location	: Degloor Dist. Nanded
Site Area	: 4,199.14 m ²
Built-up Area	: 1,269 m ²
Typology	: Office building
SVAGRIHA Rating	: 5 Star Rating
Year of Completion	: 2019

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

🌿 **Landscape:**

- 53.64% of the total paved area on site is either soft paved or shaded by trees to reduce the urban heat island effect.
- 63 new native trees have been planted on site.

🌞 **Energy:**

- More than 91.81% of the total living area is day-lit.
- LPD of the project is 3.71 W/m², which is lower than the ECBC specified limit of 10.80 W/ m² for commercial buildings.
- Thermal efficiency of the building envelope is 337.90 sqft/TR.
- All fans installed in the building are BEE 5-star rated.

♻️ **Water and Waste:**

- Reduction of 55.52% from the SVAGRIHA base case has been demonstrated in building water demand by installing water efficient fixtures.
- Reduction of 77.85% from the SVAGRIHA base case has been demonstrated in the landscape water demand.
- Rainwater storage tank of 10,000 litre capacity and recharge pit is constructed on site to capture and utilize rainwater. Excess rainwater is recharged in the ground water aquifer through a filtration system.

🏠 **Sustainable Building Materials:**

- PPC has been used for 100% structural, plaster and masonry work.
- Low VOC and lead free paints have been used to maintain good indoor air quality.
- Reduction of 30.47% from the SVAGRIHA base case has been demonstrated in embodied energy by using low energy materials for wall construction.

👤 **Lifestyle:**

- Environmental awareness signages have been displayed at various locations.
- Basic amenities such as grocery store, ATM, restaurant, gym and pharmacy were located within walkable distance from the site.

Integrated Design Team:

Client	: Public Works Department, Government of Maharashtra
Principal Architect	: Ar. Sanjay Gedam, Dy. Chief Architect
Contractor	: M/a Sai Construction, Nanded
Green Building Design and Certification	: Gadim Consultancy and Co.