



STPI Office Building, Allahabad

Location	: Prayagraj, Uttar Pradesh
Site Area	: 4,507 m ²
Built-up Area	: 1,412 m ²
Typology	: Commercial building
SVAGRIHA Rating	: 3 Star Rating
Year of Completion	: 2019

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

🌍 **Landscape:**

- 56% of the total paved area is shaded with trees.
- 50 new trees have been planted on site.

🌍 **Architecture & Energy:**

- More than 56.6% of the total living area is day-lit.
- LPD of the project is 4.69 W/m², which is lower than the ECBC specified limit of 10.80 W/ m² for office buildings.
- Thermal efficiency of the building envelope is 143.86 W/sq. m.
- VRF system was installed in the project which is equivalent to BEE 5-star rated air conditioner.

🌍 **Water and Waste:**

- Reduction of 50.16% from the SVAGRIHA base case has been demonstrated in building water demand by installing water efficient fixtures.
- Reduction of 53.44% from the SVAGRIHA base case has been demonstrated in the landscape water demand.
- Rainwater recharge pit of 1,14,290 litres capacity has been constructed on site.

🌍 **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 24.64% from the SVAGRIHA base case has been demonstrated in embodied energy by using low energy materials for wall construction.

🌍 **Lifestyle:**

- Environmental awareness signage's 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	: STPI & NBCC
Principal Architect	: Sthapati Associates Pvt. Ltd
Green Building Design and Certification	: PSI Energy Pvt. Ltd