



Mess and Consumer Store Building for RCSM Medical College at Shenda Park

Location	: Kolhapur
Site Area	: 1,365 m ²
Built-up Area	: 363.87 m ²
Typology	: Mixed use building
SVAGRIHA Rating	: 5 Star Rating
Year of Completion	: 2020

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

Landscape:

- 54% of the total paved area on site is either soft paved or shaded by trees to reduce the urban heat island effect.
- 100% of the existing mature trees have been preserved on site.

Architecture & Energy:

- More than 76.89% of the total living area is day-lit.
- LPD of the project is 2.42 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 331 sqft/TR.
- All fans installed in the building are BEE 5-star rated.

Water and Waste:

- Reduction of 82.77% from the SVAGRIHA base case has been demonstrated in the landscape water demand.
- Reduction of 54.28% from the SVAGRIHA base case has been demonstrated in building water demand by installing low-flow plumbing fixtures.
- Rainwater storage tank of 8,000 litres capacity has been constructed on site.
- Compost pits were provided on site to treat the organic waste generated 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 42.29% from the SVAGRIHA base case has been demonstrated in embodied energy by using AAC blocks for wall construction.

Lifestyle:

- A dedicated toilet and resting area has been provided for service staff in the building.
- Basic amenities such as grocery store, ATM, park, restaurant, community centre, place of worship, theater and pharmacy were located within walkable distance from the site.
- Electric charging point has been provided to encourage the use of electric cars and reduce carbon emissions.

Integrated Design Team:

Client : Shri. Ajit A. Sagane, Secretary, Public Works Department, Government of Maharashtra

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

Green Building Consultant : Gadin Consultancy and Co.