



Residential Building No-25 of Type B Apartments- IITB Campus, Mumbai, Maharashtra



Location	: Mumbai, Maharashtra
Site Area	: 4,245 sq.m.
Built up Area	: 16,290 sq.m.
Typology	: Residential building
Rating Category	: GRIHA Provisional Rating
Version	: Version 3.1
Year of Award	: 2025
Client	: IIT Mumbai
Principal Architect	: Somaya & Kalappa Construction PVT. LTD.
Green Building Consultant	: Green Angle & Ab Initio



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

Sustainable Site Planning

- Availability of amenities such as bus stop, bank, restaurant, grocery store and hospital are located within 500m radius from the main entrance of the project.

Energy:

- EPI reduction of 74% from the GRIHA base case has been demonstrated through the integration of high-performance systems.
- Solar photovoltaic system of capacity 40 kWp has been installed.

Occupant Comfort:

- 98.35% of the regularly occupied spaces are day-lit and meet the daylight factor as prescribed by NBC 2005.
- Low-VOC paints with less than 50 g/L of volatile organic compounds and free from lead, has been utilized in the project.

Water Management:

- Reduction of 32.36% from the GRIHA base case has been demonstrated in the building water demand by installing efficient low-flow fixtures.
- Reduction of 40.02% from the GRIHA base case has been demonstrated in the landscape water demand by installing efficient irrigation system.

Sustainable Building Materials:

- Portland Pozzolana Cement with more than 25% fly ash content was used for plastering and mortar.
- AAC blocks with more than 69% of fly ash by volume were used for internal and external walls.

Socio-Economic Strategies:

- Environmental awareness poster was displayed in the campus as a part of green education.