



New Income Tax Building, Bhopal, Madhya Pradesh



Location	: Bhopal, Madhya Pradesh
Site Area	: 7,082.50 sq.m.
Built up Area	: 8,686.34 sq.m.
Typology	: Commercial
Rating Category	: GRIHA Provisional Rating
Version	: Version 2015
Year of Award	: 2025
Client	: Income Tax office
Integrated Design Team	: Arch-En Design
Green Building Consultant	: UEDC

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

Sustainable Site Planning:

- More than 50% areas on the unfavorable orientations such as west and south have spaces such as staircase, toilets, lifts, etc. which act as buffer zones.
- Ventilators have been installed in the project to allow staff effect inside the building.
- Total 3,541.30 cum soil was excavated and same was reused on site for landscaping.

Energy:

- EPI reduction of 51.94% from the GRIHA base case has been demonstrated through the integration of high-performance systems.
- Solar photovoltaic system of capacity 150 kWp has been installed.

Occupant Comfort:

- 75.51% of the regularly occupied spaces are day-lit and meet the daylight factor as prescribed by NBC 2005.

Water Management:

- Reduction of 70.36% from the GRIHA base case has been demonstrated in the building water demand by installing efficient low-flow fixtures.
- Reduction of 78.20% from the GRIHA base case has been demonstrated in the landscape water demand by installing efficient irrigation system.
- Rainwater recharge pit of capacity 352.02 cum. was installed in the project.

Sustainable Building Materials:

- Pozzolana Portland cement with more than 25% fly ash content were used in structural concrete, plaster and masonry mortar.
- AAC blocks with 40% of fly ash content have been used for walling in the project.
- Granite, ceramic tiles and vitrified tiles were used in the project.

Waste Management:

- Centralized waste collection facility has been provided in the project.
- Multi-colored bins have been provided for segregation waste.