



Atal Residential School, Prayagraj, Uttar Pradesh



Location	: Prayagraj, Uttar Pradesh
Site Area	: 65,255 sqm.
Built up Area	: 5,140 sqm.
Typology	: Institutional
Rating Category	: GRIHA Provisional Rating
Version	: Version 2015
Year of Award	: 2025
Client	: Mr. Sandeep Anand, Managing Director, GS Express Pvt. Ltd.
Green Building Consultant	: MAG Environmental Consultants LLP

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 grocery store, Jan Seva Kendra are located within 500 meters walking distance from the project entrance. Medical room, canteen and playground are located within the project.
- The building does not cast shadow on the neighbouring building.

Energy:

- EPI reduction of 64.44% from the GRIHA base case has been demonstrated through the integration of high-performance systems.
- The project demonstrates 45.51% offset of annual HVAC and internal lighting energy consumption through installation of 50 kWp solar plant within the project campus.

Occupant Comfort:

- More than 25% of the regularly occupied spaces are day-lit and meet the daylight factor as prescribed by NBC 2005.

Water Management:

- More than 35.77% reduction from the GRIHA base case has been demonstrated in the building water demand by installing efficient low-flow fixtures.
- Reduction of 31.58% from the GRIHA base case has been demonstrated in the landscape water demand by installing efficient irrigation systems.

Sustainable Building Materials:

- Structural concrete minimum 25% replacement of OPC (Ordinary Portland Cement) with fly ash by weight of cement in building's structural system.
- Portland Pozzolana Cement (PPC) and block adhesive were used for the plastering and masonry mortar.

Waste Management:

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