



## Academic and Admin Block at Atal Residential School, Gonda, Uttar Pradesh



<b>Location</b>	: Gonda, Uttar Pradesh
<b>Site Area</b>	: 10,693.89 sq.m.
<b>Built up Area</b>	: 6,154.8 sq.m.
<b>Typology</b>	: Institutional
<b>Rating Category</b>	: GRIHA Provisional Rating
<b>Version</b>	: Version 2015
<b>Year of Award</b>	: 2025
<b>Client</b>	: Angelic Infracon Pvt. Ltd
<b>Green Building Consultant</b>	: I-NAT Global

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

### Sustainable Site Planning:

- Air pollution control measures such as site barricading, wheel washing facility and water sprinkling on the unpaved roads were strictly adhered to during construction.
- A total of 1,427.43 cum of topsoil was excavated and reused on-site for landscaping purposes.

### Energy:

- EPI reduction of 58.3% from the GRIHA base case has been demonstrated through the integration of high-performance systems.
- Solar photovoltaic system of capacity 50 kWp has been installed.

### Occupant Comfort:

- 45.30% of the regularly occupied spaces are day-lit and meet the daylight factor as prescribed by NBC 2005.
- Low-VOC paint, containing less than 50 g/L of volatile organic compounds and free from lead, has been utilized in the project.

### Water Management:

- Reduction of 36.67% from the GRIHA base case has been demonstrated in the building water demand by installing efficient low-flow fixtures.
- Reduction of 63% from the GRIHA base case has been demonstrated in the landscape water demand by installing efficient irrigation system.
- Moving Bed Biofilm Reactor (MBBR)-based STP with a capacity of 200 KLD 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 70% of fly ash content have been used for walling in the project.
- Kota stone, ceramic tiles and vitrified tiles were used in the project.

### Socio-Economic Strategies:

- A dedicated service room has been provided for the service staff in the project.