



Backup NERLDC Office cum Control Centre, Guwahati, Assam



Location	: Guwahati, Assam
Site Area	: 2,676 sq.m.
Built up Area	: 4,681.98 sq.m.
Typology	: Institutional
Rating Category	: GRIHA Provisional Rating
Version	: Version 2015
Year of Award	: 2025
Client	: NERLDC, GRID-INDIA, Kahilipara, Guwahati
Green Building Consultant	: Ecospace

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 pharmacy, gym, general store, restaurant and bus stop are located within the project.
- Air pollution control measures such as site barricading, wheel washing facility and water sprinkling on fine aggregate were strictly adhered to during construction.

Energy:

- EPI reduction of 35.79% 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:

- 55.28% 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 72.72% from the GRIHA base case has been demonstrated in the building water demand by installing efficient low-flow fixtures.
- Reduction of 40.13% in landscape water demand from the GRIHA base case has been achieved through the plantation of native shrubs.

Sustainable Building Materials:

- 33.2% reduction in embodied energy by use of AAC blocks for internal and external walls of the project.
- Kota stone, granite 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 of dry & wet waste.