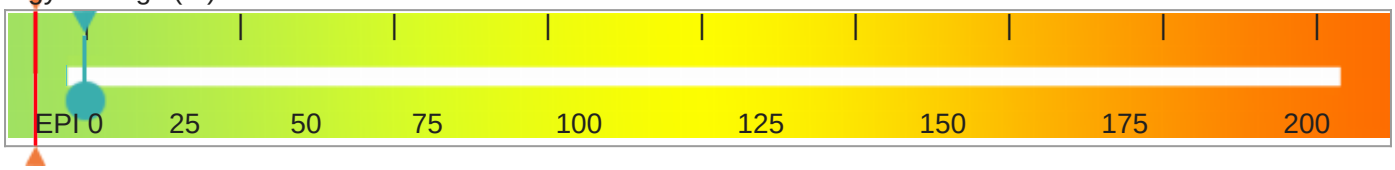
ECO-NIWAS REPORT CARD

Congratulations!

You have designed an energy efficient home. The home you designed has reduced the EPI from to kWh/m^2 per year.

My Energy Savings (%)



Baseline

kWh/year

0

Energy Savings

Your energy efficient home can save you up to
0 kWh of energy equating to
0 miles driven by an average passenger vehicle.

CO_2

0

GHG Savings

Your energy efficient home can reduce
emissions up to 0 CO2 equating to
0 tree seedlings grown for 10 years.

INR

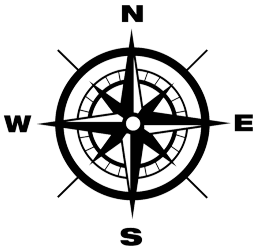
0

Money Savings

Your energy efficient home can save you up to
0 INR by consuming less energy.



Stand-Alone



Area per floor: m^2
Orientation:

	Your Design	Baseline Design
Orientation		
Roof Type		
Wall Type		
Window Size		
Window Type		
Shading		
Air Conditioner		

Assumptions for analysis

The analysis uses climate information of representative cities. For analysis, a 4-story building with one household for every floor has been assumed. Each household consists of 2 bedrooms, living room, dining room, kitchen and two washrooms. These spaces account for approximately 72 m2 of carpet area. The home is occupied by a typical urban family consisting of 4 individuals (Husband, wife and two children) with basic amenities such as lighting, ceiling fans and home appliances. It is assumed that the household consists of 1 working individual, 1 homemaker and two school going children. Therefore, the home is assumed to be partially/completely occupied at all times.

Depending on your selection the assumptions for comfort systems are below:

- Natural ventilation: The home does not own cooling or heating devices and is ventilated. It is assumed that windows will be operated when the weather outside is more comfortable.
- Mixed Mode: The home owns air-conditioner and/or heating devices. Only the living room and two bedrooms are assumed to be conditioned. The family operates air-conditioner and/or heating devices frugally, to meet its comfort needs only when the space inside is uncomfortable. On occasions when the weather outside is pleasant, the family opens windows to make their home comfortable.
- Air-conditioned: The home owns air-conditioner and/or heating devices. Only the living room and two bedrooms are assumed to have air-conditioners and/or heaters. The family operates the air-conditioner and/or heating devices whenever the spaces inside are uncomfortable.

All outcomes are calculated against a reference case.

Disclaimer

The contents of the report are an approximation based on outcomes of energy simulation analysis. The outcomes represent standard conditions and depend on a number of factors like weather, occupant behavior, equipment performance and maintenance etc. which may vary from case to case.
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