



greenone

Green One

Location	: New Delhi
Site Area	: 264 sq.m.
Built up area	: 876 sq.m.
Typology	: Residential
SVA GRIHA rating	: 5 star

The following strategies were adopted to reduce the building impact on the natural environment:



Landscape

- Over 74% of the total open area on site is soft paved.
- 5 new native/naturalized trees have been planted on site.



Energy

- Over 54% of total living area falls under daylight zone.
- The LPD of the project is 5.13 (W/sqm) which is lower than the ECBC specified LPD limit of 7.5 W/sqm for Multifamily buildings.
- The thermal efficiency of the project is 443.32 sq.ft. /TR, which is more than the SVA GRIHA base case for New Delhi (325 sq.ft./TR).
- 4 kWp solar photovoltaic panels and solar water heaters of 400 lpd capacity have been installed on the roof.
- All air-conditioners and fans installed in the residence are BEE 5 star rated.



Water and waste

- Use of low-flow fixtures reduced the building water demand by almost 58% compared to SVA GRIHA base case.
- Rainwater storage tank of 3500 litre capacity has been installed on site to capture and utilize rainwater.
- The project is converting organic kitchen waste into manure through installation of "Daily Dump Khamba".



Materials

- All interior paints are low-VOC and lead free.
- Almost 96% of all interior finishes are low energy materials.
- Almost 87% of floor area materials are low-energy materials.



Lifestyle

- A dedicated bedroom and toilet has been provided for the service staff, within the residence.
- Waste water from the residence is being recycled and reused through a root zone treatment system.
- Intelligent Building Management System is being installed in the residence.

Integrated Design Team:

Client	: Mr Prasanto K. Roy, New Delhi
Architect	: The Design Consortium, New Delhi