



# Expansion & Modification of Terminal Building at Jammu Airport



<b>Location</b>	:	Jammu, Jammu and Kashmir
<b>Site Area</b>	:	24,446 sq.m.
<b>Built up Area</b>	:	14,500 sq.m.
<b>Typology</b>	:	Commercial
<b>Rating Category</b>	:	GRIHA for Existing Buildings (EB)
<b>Version</b>	:	1
<b>Date of Award</b>	:	30 September 2017
<b>Client</b>	:	Airport Authority of India
<b>Operation &amp; maintenance</b>	:	Airport Authority of India
<b>Green Building Consultant</b>	:	Udit Gaurav

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

### ➤ Site Parameters:

- ◆ Dedicated parking provided for electric vehicles
- ◆ 38% of the total site area has been shaded to reduce the urban heat island effect through the use of soft paving, trees and solar panels.

### ➤ Energy:

- ◆ Solar photovoltaic system of 300 kWp installed to generate annual energy of 4,33,469 kWh/annum.

### ➤ Water Efficiency:

- ◆ Building water consumption reduced from 33,551.67 kL/annum to 13,321.98 kL/annum
- ◆ Landscape water consumption reduced from 2,260kL/annum to 7,385kL/annum.
- ◆ Soil-biotechnology technology based STP of 200 kLD installed in the project.

### ➤ Universal Accessibility & Environmental Awareness

- ◆ Provision of ramps, lifts with braille, dedicated parking and toilets for differently abled.
- ◆ Tree plantation drive conducted on World Environment Day.
- ◆ Display of environmental awareness posters in common areas.

Total energy offset by renewables

**14%**

Total reduction in building water demand

**60.29%**

**TOTAL CARBON OFFSET BY THE PROJECT:**  
By planting native saplings & preserving existing trees: 6.82 ton/year