The Doon School: Art School

Location: Dehradun, Uttarakhand
Site Area: 283280 m²
Total Built up Area: 4839 m²
Non Air-conditioned Area: 4839 m²
Energy Consumption Reduction: 73.3% reduction from TERI GRIHA benchmark
EPI: 17 KWh/m²/year
GRIHA rating: 2 Stars

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

- Sustainable Site Planning:
  - New buildings were designed on existing building footprint of the old Art school and Master's residence.
  - Existing trees are preserved and protected on site.
  - Top soil stored and preserved for later use.

- Reduction in water consumption (compared to TERI GRIHA benchmark):
  - 57.8% reduction in building water consumption by use of low-flow fixtures in Master's residence.
  - 79.5% reduction in building water consumption by use of low-flow fixtures in Art school.

- Reduction in energy consumption (compared to TERI GRIHA benchmark) while maintaining occupant comfort:
  - For achieving visual comfort
    - 100% outdoor lighting installed with automatic controls.
    - NBC and ECBC compliant Lux levels in all living spaces.
  - For achieving thermal comfort
    - Passive design technologies to reduce demand for conventional energy.

- Use of low-energy/green materials:
  - 15% cement replaced with fly ash by weight of cement used in structural concrete.
  - Ceiling tiles with more than 50% recycled content.

Integrated Team:

- Project Management: The Doon School Project Team
- Architects/MEP Consultant: Kothari & Associates (Master's Residence, Hathi Khana)
- Architects/MEP Consultant: Ram Sharma & Associates (Master's Residence, Main field)
- Architects/MEP Consultant: Khosla Associates (Art and Media Centre)