



## The Doon School: Art School

|                                     |                                             |
|-------------------------------------|---------------------------------------------|
| <b>Location</b>                     | : Dehradun, Uttarakhand                     |
| <b>Site Area</b>                    | : 283280 m <sup>2</sup>                     |
| <b>Total Built up Area</b>          | : 4839 m <sup>2</sup>                       |
| <b>Non Air- conditioned Area</b>    | : 4839 m <sup>2</sup>                       |
| <b>Energy Consumption Reduction</b> | : 73.3% reduction from TERI GRIHA benchmark |
| <b>EPI</b>                          | : 17 KWh/ m <sup>2</sup> /year              |
| <b>GRIHA rating</b>                 | : 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:
  - o 15% cement replaced with fly ash by weight of cement used in structural concrete.
  - o Ceiling tiles with more than 50% recycled content.

### Integrated Team:

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