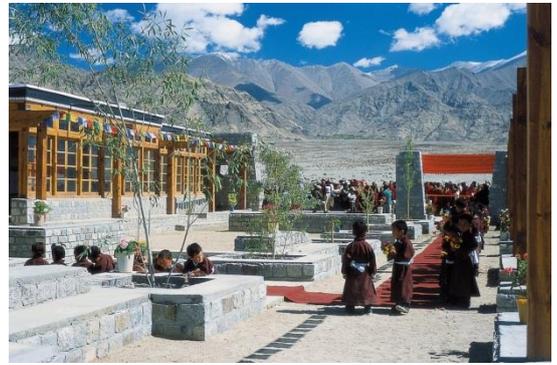


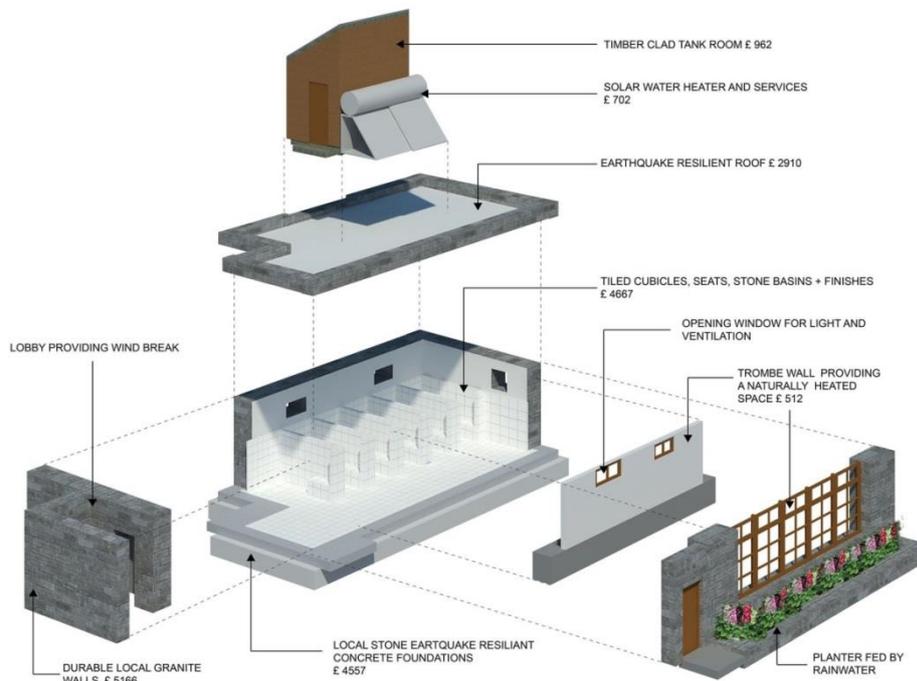
Eco Showers in Ladakh

The Eco Shower buildings will provide warm shower cubicles and washing troughs for over 350 residential children.

The environmental principles of the main school design, designed by Arup, are reflected in the design of the Eco Shower.



- The water source is the local underground aquifer, which is pumped by photovoltaic cells to a tank, from which the water is gravity fed.
- Each shower block will have high capacity evacuated glass tube solar water heaters feeding water into shower cubicles and to taps where students will be able to draw warm water for washing.
- The design uses local resources, including granite, mud bricks, timber and concrete, to create a comfortable internal environment in the extreme environment of the Himalayas.
- The building is heated passively by a trombe wall and ventilated via high level windows. The trombe wall has an outer timber framed glazed screen, with an inner mud brick wall. This system allows warm air to be trapped in the cavity, and released into the main space through radiation and via opening high level windows set into the mudbrick wall.
- The design is seismically resilient to comply with the Indian Code.
- Grey water is used to water an orchard of trees.
- The water tanks are kept warm within an insulated roof-top enclosure, formed with timber cassette wall panels and an insulated metal roof.
- Each shower building provides an entrance lobby, a washing and teeth cleaning trough, and 6 shower cubicles with changing area.



Eco Shower Design

Improving the health, hygiene and wellbeing of the children is part of the mission of the school.

We need to raise £19,575 for each of the four Eco Shower buildings.