Natural Lighting & Ventilation
(non-energy based solutions)

Description:
Inadequate natural lighting and ventilation across domestic, institutional or commercial structures due to improper planning has an adverse impact on the wellbeing of the dwellers ranging from reduced productivity to long term health issues.

Electrification of these structures and utilising it during the day adds to considerable amount of costs and precious waste of energy.

The NLV project is set out to provide an array of solutions for day lighting and cross ventilation in varying structure types, through passive design techniques (non-energy based).

Applicability & Advantages
- Instant solutions that are easy to install
- Savings in electricity bills
- Improved lighting, ventilation in interior spaces, that increases efficiency of day-time activities (studying, livelihood work, cooking etc.)
- Easy to re-use and move as needed

Specification & Initial Costing*
*(only material & manufacture cost)

AirSheet (2’x1’ opening with mosquito mesh) : Rs 300 + cost of sheet used

Airlite 5’x3’ (without vent.): Rs. 960/-
Airlite 5’x3’ (with ventilation and mosquito netting) : Rs. 2900/-

Glass Mangalore Tile : Rs. 45/-
Terracotta Air-passing tile: Rs. 70/-

SolarTube (750mm dia, upto 1m long equal to 475w, covers 1000sqft, saves 1800kwhs): Rs. 12,000/-