PRAYATNA EXPERIMENTAL HOUSING PROJECT - AUROVILLE

This is the Phase I of the housing project funded by the National Building Organisation, Government of India, for the low income group of people. 12 units of the first phase consist of 4 different kind of dwelling units totaling to 440 m².

The experimental component of the housing units are the foundation, walling material, roof understructure, filler concrete slabs, flooring, doors and shelves.
The foundation are in rammed earth which is stabilized with 5% cement. The brick pillars in earth "L" shaped at the corners carry a suspended floor and the roof.

The flooring is black stone slabs on prefabricated R.C.C beams while the roof is burnt clay tiles on prefabricated R.C.C rafter. (Wood is an expensive and rare material in India)
The living and sleeping rooms are 3.60 x 3.60 m. square spaces roofed by a pyramid. The connecting elements of these pyramids are kitchen and toilets/shower. These connecting elements are roofed with filler (broken bricks) concrete slabs.

The door shutters are made of ferrocement 1/2" thk. which are then hung with pivot hinges. The windows and walls have over hanging roofs for sun and rain protection and steel grills for security. The long orientation of cluster of houses is North - South to have minimum exposure to the sun. In South India where the climate ranges from hot humid to hot dry the orientation is essential.
FLOOR PLAN - PRAYATNA PHASE 2

1. ENTRANCE
2. KITCHEN
3. TOILET/SHOWER
4. ROOM
5. BED ROOM