Construction Details

- **Configuration**
  - Load bearing brick wall needed
  - Heavy and rigid structure
  - Vulnerable to earthquake forces
  - One storey buildings are recommended
  - Lintel bands have to be added at plinth level, window top level and wall top levels. They must be tied around the whole building
  - Minimum foundation depth is 2' below ground
  - Minimum retaining wall width is 9”
  - Minimum wall thickness is 4.5”
  - Minimum size of lintel is 9” x 4.5”

- **Concrete Mixes**
  - With steel: 1:2:4
  - Without steel: 1:3:6

- **Mortar**
  - 1:4

- **Note:** Ratio of water to cement is always 0.75 by volume

- **Slab**
  - 4” thick
  - 1:3:6 concrete
  - On 6” compacted sand

- **Roof**
  - CGI sheet
  - On 3”x2” purlin @ 3 c/c
  - On 4”x2” rafter @ 4 c/c

- **All Lintel Bands**
  - 9” x 4.5”, 2d3/8”
  - d1/4” @ 4” c/c

- **Brick**
  - Brick must be at least 4” thick

- **Retaining Wall**
  - At least 9” thick
  - On 18”x6” 1:3:6 concrete

- **Lintel Bands**
  - Have to be added at plinth level, window top level and wall top levels. They must be tied around the whole building.