

Cement : Sand - 1 : 4  
 Cement : Sand : Aggregates - 1 : 1.5 : 3

Refer "Mason Guide For Improving Earthquake Resistance Of Non - Engineered Construction For The Districts Of Himachal Pradesh" for reinforcement details in seismic bands.

Developed by:



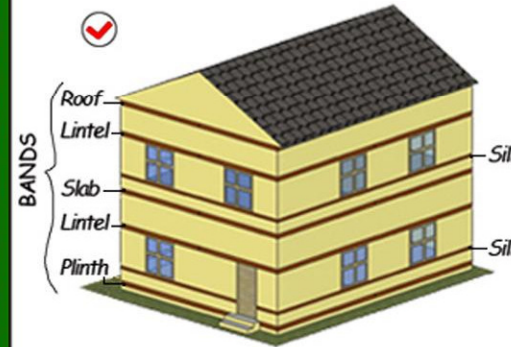
Department of Civil Engineering  
 National Institute of Technology, Hamirpur  
 Himachal Pradesh

### OWNER'S GUIDE FOR CONSTRUCTION OF NON - ENGINEERED BUILDINGS

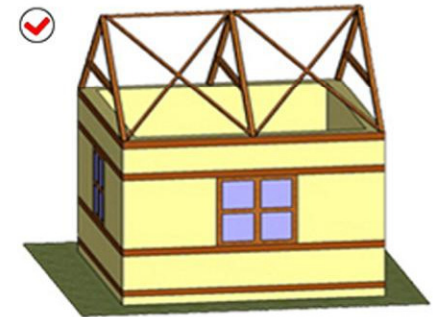


HIMACHAL PRADESH STATE  
 DISASTER MANAGEMENT AUTHORITY  
 Govt. of Himachal Pradesh

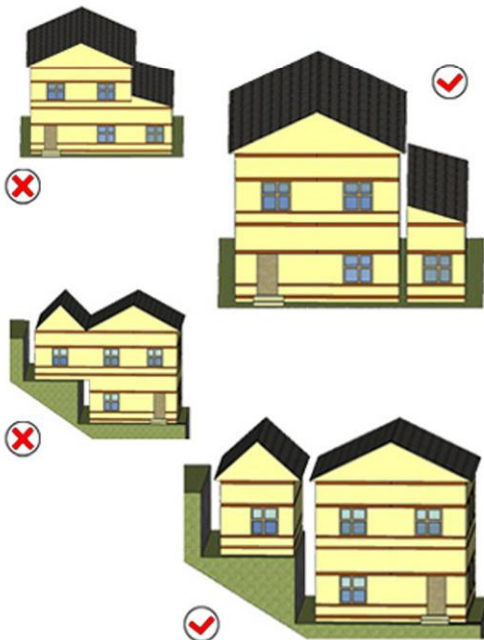
### SEISMIC BANDS



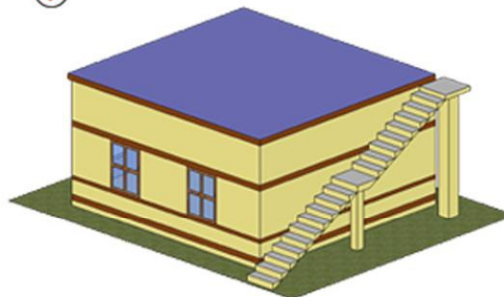
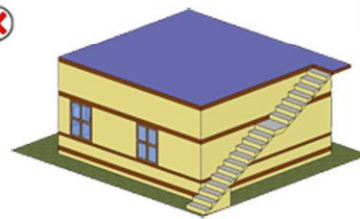
### ROOF TRUSS BRACING



### VERTICAL IRREGULARITIES



### DETACHED STAIR CASE



### OPENING'S DISTANCE FROM CORNER



### PLAN IRREGULARITIES

