

## **Distribution of Houses by Predominant Materials of Roof and Wall and Level of Damage Risk**

**Table No. : KL 14**

**State : KERALA**

## **THIRUVANANTHAPURAM**

<b>ROOF</b>									
<b>R1 - Light Weight Sloping Roof</b>	Rural	128,690	12.3						
	Urban	111,902	10.7						
	<b>Total</b>	<b>240,592</b>	<b>23.0</b>		<i>L</i>			<i>H</i>	<i>VH</i>
<b>R2 - Heavy Weight Sloping Roof</b>	Rural	138,579	13.3						
	Urban	100,215	9.6						
	<b>Total</b>	<b>238,794</b>	<b>22.9</b>		<i>L</i>			<i>L</i>	<i>H</i>
<b>R3 - Flat Roof</b>	Rural	234,989	22.5						
	Urban	330,327	31.6						
	<b>Total</b>	<b>565,316</b>	<b>54.1</b>	<i>Damage Risk as per that for the Wall supporting it</i>					
<b>TOTAL HOUSES*</b>		<b>1,044,702</b>							

**Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. 485 mm**

## Housing Category : Wall Types

**Category - A** : Buildings in field-stone, rural structures,  
unburnt brick houses, clay houses

**Category - B** : Ordinary brick building; buildings of the large block & prefabricated type, half-timbered structures, building in natural hewn stone

**Category - C** : Reinforced building, well built wooden structures

**Category - X** : Other materials not covered in A,B,C. These are generally light.

**Notes :** 1. Flood prone area includes that protected area which may have more severe damage under failure of protection works. In some other areas the local damage may be severe under heavy rains and choked drainage.

2. Damage Risk for wall types is indicated assuming heavy flat roof in categories A, B and C (Reinforced Concrete) building

### **3. Source of Housing Data : Census of Housing, GOI, 2011**

### **Housing Category : Roof Type**

**Category - R1** - Light Weight (Grass, Thatch,

Bamboo, Wood, Mud, Plastic, Polythene,

GI Metal, Asbestos Sheets, Other Materials)

**Category - R2 - Heavy Weight (Tiles, Stone**

## **Category - R3 - Flat Roof (Brick, Concrete)**

EQ Zone V : Very High Damage Risk Zone (MSK > 7)

EQ Zone IV : High Damage Risk Zone (MSK VIII)

EQ Zone III : Moderate Damage Risk Zone (MSK V)

EQ Zone II : Low Damage Risk Zone (MSK < VI)

: VH = Very High; H = High;

\* Total No of Houses excluding Vacant / Locked Houses