

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

**Table No. : TN 03**

**State : TAMIL NADU**

**KANCHEEPURAM**

Wall / Roof		Census Houses		Level of Risk under								
		No. of Houses	%	EQ Zone				Wind Velocity m/s				Flood Prone Area in %
				V	IV	III	II	55 & 50	47	44 & 39	33	
				Area in %				Area in %				
<b>WALL</b>						61.3	38.7	87.0		13.0		
<b>A1 - Mud &amp; Unburnt Brick Wall</b>	Rural	93,412	8.2									
	Urban	36,617	3.2									
	<b>Total</b>	<b>130,029</b>	<b>11.4</b>			<i>M</i>	<i>L</i>	<i>VH</i>		<i>M</i>		
<b>A2 - Stone Wall not packed with mortar</b>	Rural	15,500	1.4									
	Urban	19,697	1.7									
	<b>Total</b>	<b>35,197</b>	<b>3.1</b>			<i>M</i>	<i>L</i>	<i>H</i>		<i>L</i>		
<b>Total - Category - A</b>		<b>165,226</b>	<b>14.6</b>									
<b>B - Burnt Bricks Wall &amp; Stone wall packed with mortar</b>	Rural	223,011	19.7									
	Urban	504,493	44.5									
	<b>Total</b>	<b>727,504</b>	<b>64.2</b>			<i>L</i>	<i>VL</i>	<i>H</i>		<i>L</i>		
<b>Total - Category - B</b>		<b>727,504</b>	<b>64.1</b>									
<b>C1 - Concrete Wall</b>	Rural	42,187	3.7									
	Urban	145,312	12.8									
	<b>Total</b>	<b>187,499</b>	<b>16.5</b>			<i>VL</i>	<i>VL</i>	<i>L</i>		<i>VL</i>		
<b>C2 - Wood wall</b>	Rural	1,086	0.1									
	Urban	913	0.1									
	<b>Total</b>	<b>1,999</b>	<b>0.2</b>			<i>VL</i>	<i>VL</i>	<i>VH</i>		<i>M</i>		
<b>Total - Category - C</b>		<b>189,498</b>	<b>16.7</b>									
<b>X - Other Materials</b>	Rural	30,065	2.7									
	Urban	21,834	1.9									
	<b>Total</b>	<b>51,899</b>	<b>4.6</b>			<i>VL</i>	<i>VL</i>	<i>VH</i>		<i>M</i>		
<b>Total - Category - X</b>		<b>51,899</b>	<b>4.6</b>									
<b>TOTAL HOUSES*</b>		<b>1,134,127</b>										

<b>ROOF</b>												
<b>R1 - Light Weight Sloping Roof</b>	Rural	167,233	14.7									
	Urban	140,233	12.4									
	<b>Total</b>	<b>307,466</b>	<b>27.1</b>			<i>L</i>	<i>VL</i>	<i>VH</i>		<i>H</i>		
<b>R2 - Heavy Weight Sloping Roof</b>	Rural	63,516	5.6									
	Urban	75,471	6.7									
	<b>Total</b>	<b>138,987</b>	<b>12.3</b>			<i>L</i>	<i>VL</i>	<i>H</i>		<i>L</i>		
<b>R3 - Flat Roof</b>	Rural	174,512	15.4									
	Urban	513,162	45.2									
	<b>Total</b>	<b>687,674</b>	<b>60.6</b>	Damage Risk as per that for the Wall supporting it								
<b>TOTAL HOUSES*</b>		<b>1,134,127</b>										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. **667 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/Slate)

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

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

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

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

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

Level of Risk : VH = Very High; H = High;

M = Moderate; L = Low; VL = Very Low

\* Total No.of Houses excluding Vacant/Locked Houses