

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

**Table No. : KN 28**

**State : KARNATAKA**

**CHIKKABALLAPURA**

Wall / Roof		Census Houses		Level of Risk under									
		No. of Houses	%	EQ Zone				Wind Velocity m/s				Flood Prone Area	
				V	IV	III	II	55 & 50	47	44 & 39	33		
				Area in %				Area in %					
							100					100	
<b>WALL</b>													
<b>A1 - Mud &amp; Unburnt Brick Wall</b>	Rural	44,421	12.1										
	Urban	6,103	1.7										
	<b>Total</b>	<b>50,524</b>	<b>13.8</b>					<i>L</i>					<i>L</i>
<b>A2 - Stone Wall not packed with mortar</b>	Rural	25,898	7.1										
	Urban	5,228	1.4										
	<b>Total</b>	<b>31,126</b>	<b>8.5</b>					<i>L</i>					<i>VL</i>
<b>Total - Category - A</b>		<b>81,650</b>	<b>22.3</b>										
<b>B - Burnt Bricks Wall &amp; Stone wall packed with mortar</b>	Rural	196,820	53.7										
	Urban	64,820	17.7										
	<b>Total</b>	<b>261,640</b>	<b>71.4</b>					<i>VL</i>					<i>VL</i>
<b>Total - Category - B</b>		<b>261,640</b>	<b>71.4</b>										
<b>C1 - Concrete Wall</b>	Rural	6,225	1.7										
	Urban	5,477	1.5										
	<b>Total</b>	<b>11,702</b>	<b>3.2</b>					<i>VL</i>					<i>VL</i>
<b>C2 - Wood wall</b>	Rural	2,467	0.7										
	Urban	334	0.1										
	<b>Total</b>	<b>2,801</b>	<b>0.8</b>					<i>VL</i>					<i>L</i>
<b>Total - Category - C</b>		<b>14,503</b>	<b>4.0</b>										
<b>X - Other Materials</b>	Rural	7,440	2.0										
	Urban	995	0.3										
	<b>Total</b>	<b>8,435</b>	<b>2.3</b>					<i>VL</i>					<i>L</i>
<b>Total - Category - X</b>		<b>8,435</b>	<b>2.3</b>										
<b>TOTAL HOUSES*</b>		<b>366,228</b>											

<b>ROOF</b>													
<b>R1 - Light Weight Sloping Roof</b>	Rural	71,493	19.5										
	Urban	13,609	3.7										
	<b>Total</b>	<b>85,102</b>	<b>23.2</b>					<i>VL</i>					<i>M</i>
<b>R2 - Heavy Weight Sloping Roof</b>	Rural	172,729	47.2										
	Urban	25,473	7.0										
	<b>Total</b>	<b>198,202</b>	<b>54.2</b>					<i>VL</i>					<i>VL</i>
<b>R3 - Flat Roof</b>	Rural	39,049	10.7										
	Urban	43,875	12.0										
	<b>Total</b>	<b>82,924</b>	<b>22.7</b>	<i>Damage Risk as per that for the Wall supporting it</i>									
<b>TOTAL HOUSES*</b>		<b>366,228</b>											

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. 477 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