

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

**Table No. : KN 12**

**State : KARNATAKA**

**CHITRADURGA**

Wall / Roof		Census Houses		Level of Risk under										Flood Prone Area in %
		No. of Houses	%	EQ Zone				Wind Velocity m/s						
				V	IV	III	II	55 & 50	47	44 & 39	33			
				Area in %				Area in %						
							100					100		
WALL														
A1 - Mud & Unburnt Brick Wall	Rural	75,161	18.3											
	Urban	11,984	2.9											
	Total	87,145	21.2				L					L		
A2 - Stone Wall not packed with mortar	Rural	55,366	13.5											
	Urban	9,978	2.4											
	Total	65,344	15.9				L					VL		
Total - Category - A		152,489	37.1											
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	155,745	37.9											
	Urban	53,948	13.1											
	Total	209,693	51.0				VL					VL		
Total - Category - B		209,693	51.0											
C1 - Concrete Wall	Rural	4,413	1.1											
	Urban	7,205	1.8											
	Total	11,618	2.9				VL					VL		
C2 - Wood wall	Rural	4,856	1.2											
	Urban	617	0.2											
	Total	5,473	1.4				VL					L		
Total - Category - C		17,091	4.2											
X - Other Materials	Rural	27,099	6.6											
	Urban	4,758	1.2											
	Total	31,857	7.8				VL					L		
Total - Category - X		31,857	7.7											
TOTAL HOUSES*		411,130												

ROOF													
R1 - Light Weight Sloping Roof	Rural	116,887	28.4										
	Urban	25,254	6.1										
	Total	142,141	34.5				VL					M	
R2 - Heavy Weight Sloping Roof	Rural	184,372	44.8										
	Urban	16,731	4.1										
	Total	201,103	48.9				VL					VL	
R3 - Flat Roof	Rural	21,381	5.2										
	Urban	46,505	11.3										
	Total	67,886	16.5	Damage Risk as per that for the Wall supporting it									
TOTAL HOUSES*		411,130											

**Probable Maximum Precipitation at a Station of the district in 24 hrs is 280 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