

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

Table No. : KN 16

State : KARNATAKA

CHIKMAGALUR

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 %					
						9.9	90.1			.9	99.1		
WALL													
A1 - Mud & Unburnt Brick Wall	Rural	115,793	33.4										
	Urban	14,474	4.2										
	Total	130,267	37.6					<i>M</i>	<i>L</i>			<i>M</i>	<i>L</i>
A2 - Stone Wall not packed with mortar	Rural	12,258	3.5										
	Urban	3,154	0.9										
	Total	15,412	4.4					<i>M</i>	<i>L</i>			<i>L</i>	<i>VL</i>
Total - Category - A		145,679	42.0										
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	119,029	34.3										
	Urban	47,121	13.6										
	Total	166,150	47.9					<i>L</i>	<i>VL</i>			<i>L</i>	<i>VL</i>
Total - Category - B		166,150	47.9										
C1 - Concrete Wall	Rural	5,545	1.6										
	Urban	5,482	1.6										
	Total	11,027	3.2					<i>VL</i>	<i>VL</i>			<i>VL</i>	<i>VL</i>
C2 - Wood wall	Rural	2,465	0.7										
	Urban	320	0.1										
	Total	2,785	0.8					<i>VL</i>	<i>VL</i>			<i>M</i>	<i>L</i>
Total - Category - C		13,812	4.0										
X - Other Materials	Rural	19,617	5.7										
	Urban	1,612	0.5										
	Total	21,229	6.2					<i>VL</i>	<i>VL</i>			<i>M</i>	<i>L</i>
Total - Category - X		21,229	6.1										
TOTAL HOUSES*		346,870											

ROOF													
R1 - Light Weight Sloping Roof	Rural	28,698	8.3										
	Urban	8,553	2.5										
	Total	37,251	10.8					<i>L</i>	<i>VL</i>			<i>H</i>	<i>M</i>
R2 - Heavy Weight Sloping Roof	Rural	228,653	65.9										
	Urban	34,068	9.8										
	Total	262,721	75.7					<i>L</i>	<i>VL</i>			<i>L</i>	<i>VL</i>
R3 - Flat Roof	Rural	17,356	5.0										
	Urban	29,542	8.5										
	Total	46,898	13.5	<i>Damage Risk as per that for the Wall supporting it</i>									
TOTAL HOUSES*		346,870											

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