

**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 %				in %	
WALL								100				100	
A1 - Mud & Unburnt Brick Wall	Rural	44,421	12.1										
	Urban	6,103	1.7										
	Total	50,524	13.8					<i>L</i>				<i>L</i>	
A2 - Stone Wall not packed with mortar	Rural	25,898	7.1										
	Urban	5,228	1.4										
	Total	31,126	8.5					<i>L</i>				<i>VL</i>	
Total - Category - A		81,650	22.3										
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	196,820	53.7										
	Urban	64,820	17.7										
	Total	261,640	71.4					<i>VL</i>				<i>VL</i>	
Total - Category - B		261,640	71.4										
C1 - Concrete Wall	Rural	6,225	1.7										
	Urban	5,477	1.5										
	Total	11,702	3.2					<i>VL</i>				<i>VL</i>	
C2 - Wood wall	Rural	2,467	0.7										
	Urban	334	0.1										
	Total	2,801	0.8					<i>VL</i>				<i>L</i>	
Total - Category - C		14,503	4.0										
X - Other Materials	Rural	7,440	2.0										
	Urban	995	0.3										
	Total	8,435	2.3					<i>VL</i>				<i>L</i>	
Total - Category - X		8,435	2.3										
TOTAL HOUSES*		366,228											

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

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