

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

**Table No. : KN 05**

**State : KARNATAKA**

**RAICHUR**

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			40.4	59.6	
WALL												
A1 - Mud & Unburnt Brick Wall	Rural	49,378	11.8									
	Urban	11,531	2.8									
	Total	60,909	14.6				L			M	L	
A2 - Stone Wall not packed with mortar	Rural	63,514	15.2									
	Urban	15,777	3.8									
	Total	79,291	19.0				L			L	VL	
Total - Category - A		140,200	33.4									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	112,822	26.9									
	Urban	64,534	15.4									
	Total	177,356	42.3				VL			L	VL	
Total - Category - B		177,356	42.3									
C1 - Concrete Wall	Rural	8,355	2.0									
	Urban	8,300	2.0									
	Total	16,655	4.0				VL			VL	VL	
C2 - Wood wall	Rural	4,631	1.1									
	Urban	852	0.2									
	Total	5,483	1.3				VL			M	L	
Total - Category - C		22,138	5.3									
X - Other Materials	Rural	65,246	15.6									
	Urban	14,269	3.4									
	Total	79,515	19.0				VL			M	L	
Total - Category - X		79,515	19.0									
TOTAL HOUSES*		419,209										
ROOF												
R1 - Light Weight Sloping Roof	Rural	223,252	53.3									
	Urban	45,116	10.8									
	Total	268,368	64.1				VL			H	M	
R2 - Heavy Weight Sloping Roof	Rural	43,902	10.5									
	Urban	11,770	2.8									
	Total	55,672	13.3				VL			L	VL	
R3 - Flat Roof	Rural	36,792	8.8									
	Urban	58,377	13.9									
	Total	95,169	22.7	Damage Risk as per that for the Wall supporting it								
TOTAL HOUSES*		419,209										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. **408 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