

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

**Table No. : KN 19**

**State : KARNATAKA**

**MANDYA**

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	131,817	25.6									
	Urban	12,488	2.4									
	Total	144,305	28.0				L				L	
A2 - Stone Wall not packed with mortar	Rural	45,362	8.8									
	Urban	5,801	1.1									
	Total	51,163	9.9				L				VL	
Total - Category - A		195,468	38.0									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	206,860	40.2									
	Urban	59,116	11.5									
	Total	265,976	51.7				VL				VL	
Total - Category - B		265,976	51.7									
C1 - Concrete Wall	Rural	18,523	3.6									
	Urban	13,020	2.5									
	Total	31,543	6.1				VL				VL	
C2 - Wood wall	Rural	3,986	0.8									
	Urban	808	0.2									
	Total	4,794	1.0				VL				L	
Total - Category - C		36,337	7.1									
X - Other Materials	Rural	14,481	2.8									
	Urban	2,294	0.4									
	Total	16,775	3.2				VL				L	
Total - Category - X		16,775	3.3									
TOTAL HOUSES*		514,556										
ROOF												
R1 - Light Weight Sloping Roof	Rural	53,415	10.4									
	Urban	14,715	2.9									
	Total	68,130	13.3				VL				M	
R2 - Heavy Weight Sloping Roof	Rural	325,549	63.3									
	Urban	29,682	5.8									
	Total	355,231	69.1				VL				VL	
R3 - Flat Roof	Rural	42,065	8.2									
	Urban	49,130	9.5									
	Total	91,195	17.7	Damage Risk as per that for the Wall supporting it								
TOTAL HOUSES*		514,556										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. **385 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