

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

Table No. : KN 10

State : KARNATAKA

HAVERI

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	125,888	33.1											
	Urban	22,104	5.8											
	Total	147,992	38.9				L					L		
A2 - Stone Wall not packed with mortar	Rural	47,857	12.6											
	Urban	10,792	2.8											
	Total	58,649	15.4				L					VL		
Total - Category - A		206,641	54.4											
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	87,839	23.1											
	Urban	46,845	12.3											
	Total	134,684	35.4				VL					VL		
Total - Category - B		134,684	35.5											
C1 - Concrete Wall	Rural	3,836	1.0											
	Urban	5,202	1.4											
	Total	9,038	2.4				VL					VL		
C2 - Wood wall	Rural	4,014	1.1											
	Urban	969	0.3											
	Total	4,983	1.4				VL					L		
Total - Category - C		14,021	3.7											
X - Other Materials	Rural	21,620	5.7											
	Urban	2,932	0.8											
	Total	24,552	6.5				VL					L		
Total - Category - X		24,552	6.5											
TOTAL HOUSES*		379,898												

ROOF													
R1 - Light Weight Sloping Roof	Rural	69,672	18.3										
	Urban	15,524	4.1										
	Total	85,196	22.4				VL					M	
R2 - Heavy Weight Sloping Roof	Rural	201,887	53.1										
	Urban	40,959	10.8										
	Total	242,846	63.9				VL					VL	
R3 - Flat Roof	Rural	19,495	5.1										
	Urban	32,361	8.5										
	Total	51,856	13.6	Damage Risk as per that for the Wall supporting it									
TOTAL HOUSES*		379,898											

Probable Maximum Precipitation at a Station of the district in 24 hrs is 400 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