

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

Table No. : KN 07

State : KARNATAKA

GADAG

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	39,893	15.6											
	Urban	21,166	8.3											
	Total	61,059	23.9				L				L			
A2 - Stone Wall not packed with mortar	Rural	36,802	14.4											
	Urban	13,647	5.3											
	Total	50,449	19.7				L				VL			
Total - Category - A		111,508	43.7											
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	58,054	22.7											
	Urban	47,289	18.5											
	Total	105,343	41.2				VL				VL			
Total - Category - B		105,343	41.3											
C1 - Concrete Wall	Rural	2,082	0.8											
	Urban	5,717	2.2											
	Total	7,799	3.0				VL				VL			
C2 - Wood wall	Rural	3,496	1.4											
	Urban	1,125	0.4											
	Total	4,621	1.8				VL				L			
Total - Category - C		12,420	4.9											
X - Other Materials	Rural	18,227	7.1											
	Urban	7,874	3.1											
	Total	26,101	10.2				VL				L			
Total - Category - X		26,101	10.2											
TOTAL HOUSES*		255,372												

ROOF														
R1 - Light Weight Sloping Roof	Rural	112,017	43.9											
	Urban	48,380	18.9											
	Total	160,397	62.8				VL					M		
R2 - Heavy Weight Sloping Roof	Rural	35,449	13.9											
	Urban	13,703	5.4											
	Total	49,152	19.3				VL					VL		
R3 - Flat Roof	Rural	11,088	4.3											
	Urban	34,735	13.6											
	Total	45,823	17.9	Damage Risk as per that for the Wall supporting it										
TOTAL HOUSES*		255,372												

Probable Maximum Precipitation at a Station of the district in 24 hrs is 280 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