

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

Table No. : KN 20

State : KARNATAKA

HASSAN

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	241,413	43.0											
	Urban	19,358	3.4											
	Total	260,771	46.4				L					L		
A2 - Stone Wall not packed with mortar	Rural	13,372	2.4											
	Urban	6,054	1.1											
	Total	19,426	3.5				L					VL		
Total - Category - A		280,197	49.9											
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	167,871	29.9											
	Urban	82,164	14.6											
	Total	250,035	44.5				VL					VL		
Total - Category - B		250,035	44.5											
C1 - Concrete Wall	Rural	8,140	1.4											
	Urban	7,214	1.3											
	Total	15,354	2.7				VL					VL		
C2 - Wood wall	Rural	2,657	0.5											
	Urban	556	0.1											
	Total	3,213	0.6				VL					L		
Total - Category - C		18,567	3.3											
X - Other Materials	Rural	11,673	2.1											
	Urban	1,540	0.3											
	Total	13,213	2.4				VL					L		
Total - Category - X		13,213	2.4											
TOTAL HOUSES*		562,012												
ROOF														
R1 - Light Weight Sloping Roof	Rural	27,732	4.9											
	Urban	12,464	2.2											
	Total	40,196	7.1				VL					M		
R2 - Heavy Weight Sloping Roof	Rural	386,529	68.8											
	Urban	40,878	7.3											
	Total	427,407	76.1				VL					VL		
R3 - Flat Roof	Rural	30,865	5.5											
	Urban	63,544	11.3											
	Total	94,409	16.8	Damage Risk as per that for the Wall supporting it										
TOTAL HOUSES*		562,012												

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. **348 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