

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

Table No. : KN 17

State : KARNATAKA

TUMKUR

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	138,628	17.4											
	Urban	24,059	3.0											
	Total	162,687	20.4				L					L		
A2 - Stone Wall not packed with mortar	Rural	65,291	8.2											
	Urban	8,308	1.0											
	Total	73,599	9.2				L					VL		
Total - Category - A		236,286	29.6											
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	358,124	44.8											
	Urban	131,322	16.4											
	Total	489,446	61.2				VL					VL		
Total - Category - B		489,446	61.3											
C1 - Concrete Wall	Rural	15,831	2.0											
	Urban	12,410	1.6											
	Total	28,241	3.6				VL					VL		
C2 - Wood wall	Rural	7,035	0.9											
	Urban	1,108	0.1											
	Total	8,143	1.0				VL					L		
Total - Category - C		36,384	4.6											
X - Other Materials	Rural	32,635	4.1											
	Urban	4,080	0.5											
	Total	36,715	4.6				VL					L		
Total - Category - X		36,715	4.6											
TOTAL HOUSES*		798,831												
ROOF														
R1 - Light Weight Sloping Roof	Rural	196,749	24.6											
	Urban	34,343	4.3											
	Total	231,092	28.9				VL					M		
R2 - Heavy Weight Sloping Roof	Rural	364,797	45.7											
	Urban	49,381	6.2											
	Total	414,178	51.9				VL					VL		
R3 - Flat Roof	Rural	55,998	7.0											
	Urban	97,563	12.2											
	Total	153,561	19.2	Damage Risk as per that for the Wall supporting it										
TOTAL HOUSES*		798,831												

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. **295 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