

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

Table No. : KN 13

State : KARNATAKA

DAVANAGERE

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	102,723	21.1											
	Urban	28,297	5.8											
	Total	131,020	26.9				L					L		
A2 - Stone Wall not packed with mortar	Rural	40,960	8.4											
	Urban	11,098	2.3											
	Total	52,058	10.7				L					VL		
Total - Category - A		183,078	37.7											
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	147,547	30.4											
	Urban	95,552	19.7											
	Total	243,099	50.1				VL					VL		
Total - Category - B		243,099	50.1											
C1 - Concrete Wall	Rural	6,440	1.3											
	Urban	16,584	3.4											
	Total	23,024	4.7				VL					VL		
C2 - Wood wall	Rural	6,274	1.3											
	Urban	1,367	0.3											
	Total	7,641	1.6				VL					L		
Total - Category - C		30,665	6.3											
X - Other Materials	Rural	20,502	4.2											
	Urban	8,349	1.7											
	Total	28,851	5.9				VL					L		
Total - Category - X		28,851	5.9											
TOTAL HOUSES*		485,693												

ROOF													
R1 - Light Weight Sloping Roof	Rural	62,985	13.0										
	Urban	31,818	6.6										
	Total	94,803	19.6				VL					M	
R2 - Heavy Weight Sloping Roof	Rural	236,997	48.8										
	Urban	48,779	10.0										
	Total	285,776	58.8				VL					VL	
R3 - Flat Roof	Rural	24,464	5.0										
	Urban	80,650	16.6										
	Total	105,114	21.6	Damage Risk as per that for the Wall supporting it									
TOTAL HOUSES*		485,693											

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. **357 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