

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

Table No. : KN 11

State : KARNATAKA

BELLARY

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			10.3	89.7	
WALL												
A1 - Mud & Unburnt Brick Wall	Rural	41,264	7.4									
	Urban	21,790	3.9									
	Total	63,054	11.3				L			M	L	
A2 - Stone Wall not packed with mortar	Rural	64,361	11.6									
	Urban	29,501	5.3									
	Total	93,862	16.9				L			L	VL	
Total - Category - A		156,916	28.2									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	178,929	32.1									
	Urban	144,527	26.0									
	Total	323,456	58.1				VL			L	VL	
Total - Category - B		323,456	58.1									
C1 - Concrete Wall	Rural	7,785	1.4									
	Urban	14,693	2.6									
	Total	22,478	4.0				VL			VL	VL	
C2 - Wood wall	Rural	4,093	0.7									
	Urban	1,664	0.3									
	Total	5,757	1.0				VL			M	L	
Total - Category - C		28,235	5.1									
X - Other Materials	Rural	33,695	6.1									
	Urban	14,593	2.6									
	Total	48,288	8.7				VL			M	L	
Total - Category - X		48,288	8.7									
TOTAL HOUSES*		556,895										

ROOF												
R1 - Light Weight Sloping Roof	Rural	198,934	35.7									
	Urban	70,567	12.7									
	Total	269,501	48.4				VL			H	M	
R2 - Heavy Weight Sloping Roof	Rural	91,872	16.5									
	Urban	45,578	8.2									
	Total	137,450	24.7				VL			L	VL	
R3 - Flat Roof	Rural	39,321	7.1									
	Urban	110,623	19.9									
	Total	149,944	27.0	Damage Risk as per that for the Wall supporting it								
TOTAL HOUSES*		556,895										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. **371 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