

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

Table No. : KN 29

State : KARNATAKA

BANGALORE RURAL

Wall / Roof		Census Houses		Level of Risk under									
		No. of Houses	%	EQ Zone				Wind Velocity m/s				Flood Prone Area in %	
				V	IV	III	II	55 & 50	47	44 & 39	33		
				Area in %				Area in %					
WALL								100				100	
A1 - Mud & Unburnt Brick Wall	Rural	47,984	16.8										
	Urban	7,405	2.6										
	Total	55,389	19.4					<i>L</i>				<i>L</i>	
A2 - Stone Wall not packed with mortar	Rural	11,379	4.0										
	Urban	4,233	1.5										
	Total	15,612	5.5					<i>L</i>				<i>VL</i>	
Total - Category - A		71,001	24.8										
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	128,454	44.9										
	Urban	61,393	21.5										
	Total	189,847	66.4					<i>VL</i>				<i>VL</i>	
Total - Category - B		189,847	66.4										
C1 - Concrete Wall	Rural	9,356	3.3										
	Urban	7,825	2.7										
	Total	17,181	6.0					<i>VL</i>				<i>VL</i>	
C2 - Wood wall	Rural	1,385	0.5										
	Urban	224	0.1										
	Total	1,609	0.6					<i>VL</i>				<i>L</i>	
Total - Category - C		18,790	6.6										
X - Other Materials	Rural	4,837	1.7										
	Urban	1,368	0.5										
	Total	6,205	2.2					<i>VL</i>				<i>L</i>	
Total - Category - X		6,205	2.2										
TOTAL HOUSES*		285,843											

ROOF													
R1 - Light Weight Sloping Roof	Rural	82,530	28.9										
	Urban	22,330	7.8										
	Total	104,860	36.7					<i>VL</i>				<i>M</i>	
R2 - Heavy Weight Sloping Roof	Rural	80,579	28.2										
	Urban	12,803	4.5										
	Total	93,382	32.7					<i>VL</i>				<i>VL</i>	
R3 - Flat Roof	Rural	40,286	14.1										
	Urban	47,315	16.6										
	Total	87,601	30.7	<i>Damage Risk as per that for the Wall supporting it</i>									
TOTAL HOUSES*		285,843											

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. 385 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