

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

Table No. : KN 01

State : KARNATAKA

BELGAUM

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 %					
						50.6	49.4			1.1	98.9		
WALL													
A1 - Mud & Unburnt Brick Wall	Rural	229,981	19.7										
	Urban	63,641	5.5										
	Total	293,622	25.2					<i>M</i>	<i>L</i>			<i>M</i>	<i>L</i>
A2 - Stone Wall not packed with mortar	Rural	170,046	14.6										
	Urban	30,444	2.6										
	Total	200,490	17.2					<i>M</i>	<i>L</i>			<i>L</i>	<i>VL</i>
Total - Category - A		494,112	42.3										
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	311,573	26.7										
	Urban	157,188	13.5										
	Total	468,761	40.2					<i>L</i>	<i>VL</i>			<i>L</i>	<i>VL</i>
Total - Category - B		468,761	40.1										
C1 - Concrete Wall	Rural	26,631	2.3										
	Urban	48,631	4.2										
	Total	75,262	6.5					<i>VL</i>	<i>VL</i>			<i>VL</i>	<i>VL</i>
C2 - Wood wall	Rural	14,957	1.3										
	Urban	3,295	0.3										
	Total	18,252	1.6					<i>VL</i>	<i>VL</i>			<i>M</i>	<i>L</i>
Total - Category - C		93,514	8.0										
X - Other Materials	Rural	97,680	8.4										
	Urban	13,587	1.2										
	Total	111,267	9.6					<i>VL</i>	<i>VL</i>			<i>M</i>	<i>L</i>
Total - Category - X		111,267	9.5										
TOTAL HOUSES*		1,167,654											

ROOF													
R1 - Light Weight Sloping Roof	Rural	206,932	17.7										
	Urban	45,104	3.9										
	Total	252,036	21.6					<i>L</i>	<i>VL</i>			<i>H</i>	<i>M</i>
R2 - Heavy Weight Sloping Roof	Rural	565,499	48.4										
	Urban	124,445	10.7										
	Total	689,944	59.1					<i>L</i>	<i>VL</i>			<i>L</i>	<i>VL</i>
R3 - Flat Roof	Rural	78,437	6.7										
	Urban	147,237	12.6										
	Total	225,674	19.3	<i>Damage Risk as per that for the Wall supporting it</i>									
TOTAL HOUSES*		1,167,654											

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. 403 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