

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

Table No. : KN 15

State : KARNATAKA

UDUPI

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												
A1 - Mud & Unburnt Brick Wall	Rural	57,581	16.5									
	Urban	11,047	3.2									
	Total	68,628	19.7				<i>M</i>			<i>M</i>	<i>L</i>	
A2 - Stone Wall not packed with mortar	Rural	24,040	6.9									
	Urban	9,383	2.7									
	Total	33,423	9.6				<i>M</i>			<i>L</i>	<i>VL</i>	
Total - Category - A		102,051	29.2									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	158,906	45.4									
	Urban	74,821	21.4									
	Total	233,727	66.8				<i>L</i>			<i>L</i>	<i>VL</i>	
Total - Category - B		233,727	66.8									
C1 - Concrete Wall	Rural	1,360	0.4									
	Urban	3,221	0.9									
	Total	4,581	1.3				<i>VL</i>			<i>VL</i>	<i>VL</i>	
C2 - Wood wall	Rural	1,106	0.3									
	Urban	483	0.1									
	Total	1,589	0.4				<i>VL</i>			<i>M</i>	<i>L</i>	
Total - Category - C		6,170	1.8									
X - Other Materials	Rural	6,284	1.8									
	Urban	1,689	0.5									
	Total	7,973	2.3				<i>VL</i>			<i>M</i>	<i>L</i>	
Total - Category - X		7,973	2.3									
TOTAL HOUSES*		349,921										

ROOF												
R1 - Light Weight Sloping Roof	Rural	15,631	4.5									
	Urban	5,487	1.6									
	Total	21,118	6.1				<i>L</i>			<i>H</i>	<i>M</i>	
R2 - Heavy Weight Sloping Roof	Rural	186,739	53.4									
	Urban	52,873	15.1									
	Total	239,612	68.5				<i>L</i>			<i>L</i>	<i>VL</i>	
R3 - Flat Roof	Rural	46,907	13.4									
	Urban	42,284	12.1									
	Total	89,191	25.5	<i>Damage Risk as per that for the Wall supporting it</i>								
TOTAL HOUSES*		349,921										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. 853 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