

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

Table No. : KN 30

State : KARNATAKA

RAMANAGARA

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 %					
								100				100	
WALL													
A1 - Mud & Unburnt Brick Wall	Rural	72,596	22.9										
	Urban	11,079	3.5										
	Total	83,675	26.4					<i>L</i>					<i>L</i>
A2 - Stone Wall not packed with mortar	Rural	12,166	3.8										
	Urban	6,408	2.0										
	Total	18,574	5.8					<i>L</i>					<i>VL</i>
Total - Category - A		102,249	32.2										
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	130,616	41.2										
	Urban	50,446	15.9										
	Total	181,062	57.1					<i>VL</i>					<i>VL</i>
Total - Category - B		181,062	57.1										
C1 - Concrete Wall	Rural	11,825	3.7										
	Urban	5,798	1.8										
	Total	17,623	5.5					<i>VL</i>					<i>VL</i>
C2 - Wood wall	Rural	1,428	0.5										
	Urban	341	0.1										
	Total	1,769	0.6					<i>VL</i>					<i>L</i>
Total - Category - C		19,392	6.1										
X - Other Materials	Rural	12,972	4.1										
	Urban	1,532	0.5										
	Total	14,504	4.6					<i>VL</i>					<i>L</i>
Total - Category - X		14,504	4.6										
TOTAL HOUSES*		317,207											

ROOF													
R1 - Light Weight Sloping Roof	Rural	82,163	25.9										
	Urban	19,795	6.2										
	Total	101,958	32.1					<i>VL</i>					<i>M</i>
R2 - Heavy Weight Sloping Roof	Rural	132,218	41.7										
	Urban	19,552	6.2										
	Total	151,770	47.9					<i>VL</i>					<i>VL</i>
R3 - Flat Roof	Rural	27,222	8.6										
	Urban	36,257	11.4										
	Total	63,479	20.0	Damage Risk as per that for the Wall supporting it									
TOTAL HOUSES*		317,207											

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