

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

Table No. : KN 08

State : KARNATAKA

DHARWAD

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				100	
WALL												
A1 - Mud & Unburnt Brick Wall	Rural	88,308	20.2									
	Urban	49,855	11.4									
	Total	138,163	31.6				L				L	
A2 - Stone Wall not packed with mortar	Rural	11,134	2.6									
	Urban	18,524	4.2									
	Total	29,658	6.8				L				VL	
Total - Category - A		167,821	38.5									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	57,831	13.3									
	Urban	139,072	31.9									
	Total	196,903	45.2				VL				VL	
Total - Category - B		196,903	45.1									
C1 - Concrete Wall	Rural	4,200	1.0									
	Urban	38,016	8.7									
	Total	42,216	9.7				VL				VL	
C2 - Wood wall	Rural	1,621	0.4									
	Urban	1,904	0.4									
	Total	3,525	0.8				VL				L	
Total - Category - C		45,741	10.5									
X - Other Materials	Rural	17,945	4.1									
	Urban	8,022	1.8									
	Total	25,967	5.9				VL				L	
Total - Category - X		25,967	5.9									
TOTAL HOUSES*		436,432										

ROOF												
R1 - Light Weight Sloping Roof	Rural	77,772	17.8									
	Urban	56,208	12.9									
	Total	133,980	30.7				VL				M	
R2 - Heavy Weight Sloping Roof	Rural	93,618	21.5									
	Urban	75,791	17.4									
	Total	169,409	38.9				VL				VL	
R3 - Flat Roof	Rural	9,649	2.2									
	Urban	123,394	28.3									
	Total	133,043	30.5	Damage Risk as per that for the Wall supporting it								
TOTAL HOUSES*		436,432										

Probable Maximum Precipitation at a Station of the district in 24 hrs is 280 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