

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

**Table No. : KL 01**

**State : KERALA**

**KASARAGOD**

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				98.8	1.2	24.1	
WALL													
A1 - Mud & Unburnt Brick Wall	Rural	26,634	7.3										
	Urban	3,606	1.0										
	Total	30,240	8.3			M				M	L	VH	
A2 - Stone Wall not packed with mortar	Rural	47,816	13.0										
	Urban	15,689	4.3										
	Total	63,505	17.3			M				L	VL	VH	
Total - Category - A		93,745	25.5										
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	140,548	38.3										
	Urban	119,720	32.6										
	Total	260,268	70.9			L				L	VL	H/M	
Total - Category - B		260,268	70.9										
C1 - Concrete Wall	Rural	1,457	0.4										
	Urban	1,409	0.4										
	Total	2,866	0.8			VL				VL	VL	L/VL	
C2 - Wood wall	Rural	996	0.3										
	Urban	402	0.1										
	Total	1,398	0.4			VL				M	L	H	
Total - Category - C		4,264	1.2										
X - Other Materials	Rural	6,851	1.9										
	Urban	1,864	0.5										
	Total	8,715	2.4			VL				M	L	VH	
Total - Category - X		8,715	2.4										
TOTAL HOUSES*		366,992											
ROOF													
R1 - Light Weight Sloping Roof	Rural	18,818	5.1										
	Urban	3,758	1.0										
	Total	22,576	6.1			L				H	M	VH	
R2 - Heavy Weight Sloping Roof	Rural	114,573	31.2										
	Urban	47,779	13.0										
	Total	162,352	44.2			L				L	VL	H	
R3 - Flat Roof	Rural	90,911	24.8										
	Urban	91,153	24.8										
	Total	182,064	49.6	Damage Risk as per that for the Wall supporting it									
TOTAL HOUSES*		366,992											

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