

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

Table No. : KL 03

State : KERALA

WAYANAD

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				2.9	97.1		
WALL													
A1 - Mud & Unburnt Brick Wall	Rural	35,183	14.4										
	Urban	844	0.3										
	Total	36,027	14.7			M				M	L		
A2 - Stone Wall not packed with mortar	Rural	11,170	4.6										
	Urban	319	0.1										
	Total	11,489	4.7			M				L	VL		
Total - Category - A		47,516	19.4										
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	167,415	68.5										
	Urban	7,954	3.3										
	Total	175,369	71.8			L				L	VL		
Total - Category - B		175,369	71.7										
C1 - Concrete Wall	Rural	3,530	1.4										
	Urban	65	-										
	Total	3,595	1.4			VL				VL	VL		
C2 - Wood wall	Rural	1,735	0.7										
	Urban	61	-										
	Total	1,796	0.7			VL				M	L		
Total - Category - C		5,391	2.2										
X - Other Materials	Rural	15,918	6.5										
	Urban	354	0.1										
	Total	16,272	6.6			VL				M	L		
Total - Category - X		16,272	6.7										
TOTAL HOUSES*		244,548											

ROOF												
R1 - Light Weight Sloping Roof	Rural	60,255	24.6									
	Urban	1,932	0.8									
	Total	62,187	25.4			L				H	M	
R2 - Heavy Weight Sloping Roof	Rural	104,753	42.8									
	Urban	2,579	1.1									
	Total	107,332	43.9			L				L	VL	
R3 - Flat Roof	Rural	69,943	28.6									
	Urban	5,086	2.1									
	Total	75,029	30.7	<i>Damage Risk as per that for the Wall supporting it</i>								
TOTAL HOUSES*		244,548										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. **818 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