

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

Table No. : KL 04

State : KERALA

KOZHIKODE

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					97.2	2.8	5.2	
WALL														
A1 - Mud & Unburnt Brick Wall	Rural	34,929	4.0											
	Urban	17,539	2.0											
	Total	52,468	6.0				<i>M</i>				<i>M</i>	<i>L</i>	<i>VH</i>	
A2 - Stone Wall not packed with mortar	Rural	32,996	3.8											
	Urban	45,834	5.2											
	Total	78,830	9.0				<i>M</i>				<i>L</i>	<i>VL</i>	<i>VH</i>	
Total - Category - A		131,298	15.0											
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	206,888	23.6											
	Urban	506,153	57.7											
	Total	713,041	81.3				<i>L</i>				<i>L</i>	<i>VL</i>	<i>H/M</i>	
Total - Category - B		713,041	81.3											
C1 - Concrete Wall	Rural	1,763	0.2											
	Urban	6,203	0.7											
	Total	7,966	0.9				<i>VL</i>				<i>VL</i>	<i>VL</i>	<i>L/ VL</i>	
C2 - Wood wall	Rural	1,422	0.2											
	Urban	3,005	0.3											
	Total	4,427	0.5				<i>VL</i>				<i>M</i>	<i>L</i>	<i>H</i>	
Total - Category - C		12,393	1.4											
X - Other Materials	Rural	9,765	1.1											
	Urban	10,078	1.1											
	Total	19,843	2.2				<i>VL</i>				<i>M</i>	<i>L</i>	<i>VH</i>	
Total - Category - X		19,843	2.3											
TOTAL HOUSES*		876,575												

ROOF													
R1 - Light Weight Sloping Roof	Rural	33,041	3.8										
	Urban	28,416	3.2										
	Total	61,457	7.0				<i>L</i>				<i>H</i>	<i>M</i>	<i>VH</i>
R2 - Heavy Weight Sloping Roof	Rural	106,939	12.2										
	Urban	200,582	22.9										
	Total	307,521	35.1				<i>L</i>				<i>L</i>	<i>VL</i>	<i>H</i>
R3 - Flat Roof	Rural	147,783	16.9										
	Urban	359,814	41.0										
	Total	507,597	57.9	<i>Damage Risk as per that for the Wall supporting it</i>									
TOTAL HOUSES*		876,575											

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. 733 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 chocked 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