

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

Table No. : KL 02

State : KERALA

KANNUR

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				76.4	23.6	11.9
WALL												
A1 - Mud & Unburnt Brick Wall	Rural	36,629	4.9									
	Urban	43,331	5.8									
	Total	79,960	10.7			M				M	L	VH
A2 - Stone Wall not packed with mortar	Rural	47,773	6.3									
	Urban	43,384	5.8									
	Total	91,157	12.1			M				L	VL	VH
Total - Category - A		171,117	22.7									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	176,463	23.4									
	Urban	389,355	51.7									
	Total	565,818	75.1			L				L	VL	H/M
Total - Category - B		565,818	75.1									
C1 - Concrete Wall	Rural	2,040	0.3									
	Urban	2,878	0.4									
	Total	4,918	0.7			VL				VL	VL	L/VL
C2 - Wood wall	Rural	1,437	0.2									
	Urban	1,670	0.2									
	Total	3,107	0.4			VL				M	L	H
Total - Category - C		8,025	1.1									
X - Other Materials	Rural	5,249	0.7									
	Urban	3,242	0.4									
	Total	8,491	1.1			VL				M	L	VH
Total - Category - X		8,491	1.1									
TOTAL HOUSES*		753,451										

ROOF												
R1 - Light Weight Sloping Roof	Rural	25,814	3.4									
	Urban	8,443	1.1									
	Total	34,257	4.5			L				H	M	VH
R2 - Heavy Weight Sloping Roof	Rural	137,751	18.3									
	Urban	186,143	24.7									
	Total	323,894	43.0			L				L	VL	H
R3 - Flat Roof	Rural	106,026	14.1									
	Urban	289,274	38.4									
	Total	395,300	52.5	Damage Risk as per that for the Wall supporting it								
TOTAL HOUSES*		753,451										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. **888 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