

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

Table No. : KL 07

State : KERALA

THRISSUR

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		16.1
WALL												
A1 - Mud & Unburnt Brick Wall	Rural	49,385	5.2									
	Urban	60,720	6.4									
	Total	110,105	11.6			M				M		VH
A2 - Stone Wall not packed with mortar	Rural	38,531	4.1									
	Urban	55,977	5.9									
	Total	94,508	10.0			M				L		VH
Total - Category - A		204,613	21.7									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	192,348	20.4									
	Urban	479,149	50.9									
	Total	671,497	71.3			L				L		H/M
Total - Category - B		671,497	71.3									
C1 - Concrete Wall	Rural	10,028	1.1									
	Urban	17,271	1.8									
	Total	27,299	2.9			VL				VL		L/VL
C2 - Wood wall	Rural	1,420	0.2									
	Urban	2,288	0.2									
	Total	3,708	0.4			VL				M		H
Total - Category - C		31,007	3.3									
X - Other Materials	Rural	13,093	1.4									
	Urban	21,859	2.3									
	Total	34,952	3.7			VL				M		VH
Total - Category - X		34,952	3.7									
TOTAL HOUSES*		942,069										

ROOF												
R1 - Light Weight Sloping Roof	Rural	22,376	2.4									
	Urban	40,539	4.3									
	Total	62,915	6.7			L				H		VH
R2 - Heavy Weight Sloping Roof	Rural	118,941	12.6									
	Urban	191,059	20.3									
	Total	310,000	32.9			L				L		H
R3 - Flat Roof	Rural	163,488	17.4									
	Urban	405,666	43.1									
	Total	569,154	60.5	<i>Damage Risk as per that for the Wall supporting it</i>								
TOTAL HOUSES*		942,069										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. **448 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