

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

Table No. : TN 01

State : TAMIL NADU

THIRUVALLUR

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		77.5		22.5		
WALL												
A1 - Mud & Unburnt Brick Wall	Rural	71,913	6.8									
	Urban	26,736	2.5									
	Total	98,649	9.3			M		VH		M		
A2 - Stone Wall not packed with mortar	Rural	14,477	1.4									
	Urban	19,682	1.9									
	Total	34,159	3.3			M		H		L		
Total - Category - A		132,808	12.6									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	220,581	20.9									
	Urban	471,056	44.6									
	Total	691,637	65.5			L		H		L		
Total - Category - B		691,637	65.5									
C1 - Concrete Wall	Rural	29,637	2.8									
	Urban	151,524	14.3									
	Total	181,161	17.1			VL		L		VL		
C2 - Wood wall	Rural	1,046	0.1									
	Urban	1,313	0.1									
	Total	2,359	0.2			VL		VH		M		
Total - Category - C		183,520	17.4									
X - Other Materials	Rural	26,564	2.5									
	Urban	21,803	2.1									
	Total	48,367	4.6			VL		VH		M		
Total - Category - X		48,367	4.6									
TOTAL HOUSES*		1,056,332										

ROOF												
R1 - Light Weight Sloping Roof	Rural	133,397	12.6									
	Urban	116,573	11.0									
	Total	249,970	23.6			L		VH		H		
R2 - Heavy Weight Sloping Roof	Rural	63,245	6.0									
	Urban	73,582	7.0									
	Total	136,827	13.0			L		H		L		
R3 - Flat Roof	Rural	167,576	15.9									
	Urban	501,959	47.5									
	Total	669,535	63.4	<i>Damage Risk as per that for the Wall supporting it</i>								
TOTAL HOUSES*		1,056,332										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. 667 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