

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

Table No. : TN 27

State : TAMIL NADU

TIRUNELVELI

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 %				
						26.2	73.8			100		
WALL												
A1 - Mud & Unburnt Brick Wall	Rural	121,044	12.7									
	Urban	93,919	9.8									
	Total	214,963	22.5			M	L			M		
A2 - Stone Wall not packed with mortar	Rural	9,784	1.0									
	Urban	6,702	0.7									
	Total	16,486	1.7			M	L			L		
Total - Category - A		231,449	24.2									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	326,339	34.1									
	Urban	340,436	35.6									
	Total	666,775	69.7			L	VL			L		
Total - Category - B		666,775	69.7									
C1 - Concrete Wall	Rural	14,583	1.5									
	Urban	22,968	2.4									
	Total	37,551	3.9			VL	VL			VL		
C2 - Wood wall	Rural	1,316	0.1									
	Urban	887	0.1									
	Total	2,203	0.2			VL	VL			M		
Total - Category - C		39,754	4.2									
X - Other Materials	Rural	11,205	1.2									
	Urban	7,251	0.8									
	Total	18,456	2.0			VL	VL			M		
Total - Category - X		18,456	1.9									
TOTAL HOUSES*		956,434										

ROOF												
R1 - Light Weight Sloping Roof	Rural	75,042	7.8									
	Urban	65,434	6.8									
	Total	140,476	14.6			L	VL			H		
R2 - Heavy Weight Sloping Roof	Rural	178,545	18.7									
	Urban	130,008	13.6									
	Total	308,553	32.3			L	VL			L		
R3 - Flat Roof	Rural	230,684	24.1									
	Urban	276,721	28.9									
	Total	507,405	53.0	Damage Risk as per that for the Wall supporting it								
TOTAL HOUSES*		956,434										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. **419 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