

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

Table No. : TN 28

State : TAMIL NADU

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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		
WALL												
A1 - Mud & Unburnt Brick Wall	Rural	22,978	4.1									
	Urban	124,278	22.2									
	Total	147,256	26.3			M				M		
A2 - Stone Wall not packed with mortar	Rural	1,850	0.3									
	Urban	10,546	1.9									
	Total	12,396	2.2			M				L		
Total - Category - A		159,652	28.5									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	62,779	11.2									
	Urban	294,314	52.6									
	Total	357,093	63.8			L				L		
Total - Category - B		357,093	63.8									
C1 - Concrete Wall	Rural	3,472	0.6									
	Urban	18,343	3.3									
	Total	21,815	3.9			VL				VL		
C2 - Wood wall	Rural	200	-									
	Urban	1,450	0.3									
	Total	1,650	0.3			VL				M		
Total - Category - C		23,465	4.2									
X - Other Materials	Rural	4,615	0.8									
	Urban	14,891	2.7									
	Total	19,506	3.5			VL				M		
Total - Category - X		19,506	3.5									
TOTAL HOUSES*		559,716										

ROOF												
R1 - Light Weight Sloping Roof	Rural	16,515	3.0									
	Urban	76,595	13.7									
	Total	93,110	16.7			L				H		
R2 - Heavy Weight Sloping Roof	Rural	28,382	5.1									
	Urban	136,864	24.5									
	Total	165,246	29.6			L				L		
R3 - Flat Roof	Rural	50,997	9.1									
	Urban	250,363	44.7									
	Total	301,360	53.8	Damage Risk as per that for the Wall supporting it								
TOTAL HOUSES*		559,716										

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